

# Construction Volume and Costs

1915-1956

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A Statistical Supplement to . . .

## CONSTRUCTION REVIEW

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## **CONSTRUCTION VOLUME AND COSTS, 1915-56**

### **A Statistical Supplement to Volume 3 of Construction Review**

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## Contents

Preface.....	Page II
 SECTION I—CONSTRUCTION PUT IN PLACE:	
<i>Unadjusted Data</i>	
Table 1.—Total Construction, Annually, 1915-56.....	1
Table 2.—New Private Construction, Annually, 1915-56.....	2-5
Table 3.—New Public Construction, Annually, 1915-56 .....	6-9
Table 4.—New Public Construction, By Source and Type of Funds, and Ownership, Annually, 1915-56 .....	10-13
Table 5.—New Construction, Monthly, 1939-56 .....	14-25
Table 6.—Maintenance and Repairs, Annually, 1915-55 .....	26-28
 <i>Seasonally Adjusted Data</i>	
Table 7.—New Construction Seasonally Adjusted, Monthly, 1939-56.....	29-37
Table 8.—Seasonal Indexes for New Construction.....	38
 <i>Physical Volume</i>	
Table 9.—New Construction: Unadjusted; in 1947-49 Prices; and Indexes of Physical Volume; Annually, 1915-56.....	39
Table 10.—New Private Construction in 1947-49 Prices, Annually, 1915-56.....	40-41
Table 11.—New Public Construction in 1947-49 Prices, Annually, 1915-56 .....	42-43
Table 12.—New Construction in 1947-49 Prices, Monthly, 1939-56 .....	44-52
Table 13.—Cost Indexes Used in Adjusting Value of New Construction to 1947-49 Prices.....	53
 SECTION II—CONSTRUCTION COSTS:	
Table 14.—Construction Cost Indexes, Annually, 1915-56 .....	54-55
Table 15.—Construction Cost Indexes, Monthly, 1951-56 .....	56-57
Table 16.—Wholesale Prices of Building Materials, Annual Indexes, 1915-56.....	58
Table 17.—Wholesale Prices of Building Materials, Monthly Indexes, 1954-56 .....	59
Table 18.—Gross Average Hourly Earnings in Contract Construction, Annually, 1934-56; Monthly, 1954-56.....	60
 SECTION III—CONSTRUCTION CONTRACT AWARDS:	
Table 19.—Contract Awards in the 37 Eastern States Reported by the F. W. Dodge Corp., Annually, 1925-56.....	61
Table 20.—Contract Awards for Public Construction, by Ownership, Annually, 1946-56.....	62
Table 21.—Contract Awards for Public Construction, by Ownership, Monthly, 1952-56.....	62-65
Table 22.—Contract Awards for State and Locally Owned Projects, Monthly, 1946-51 .....	66-67
APPENDIX A—DEFINITIONS.....	69-75
APPENDIX B—DERIVATION OF THE ESTIMATES.....	77-94

## Preface

This supplement to volume 3 of Construction Review presents historical statistics on the value of construction put in place and of construction contract awards; a selection of construction cost indexes; hourly earnings in contract construction; and wholesale price indexes for building materials. These historical data correspond to current statistics published regularly in Construction Review, particularly Part A—Construction Put in Place, Part D—Contracts, and Part E—Costs.

Estimates of the value of new construction put in place and of public contract awards for new construction are prepared jointly by the Business and Defense Services Administration, U. S. Department of Commerce, and the Bureau of Labor Statistics, U. S. Department of Labor.

For these series the BLS is responsible for estimates of the value put in place of new private housekeeping residential construction (nonfarm) and all new public construction; and for the data on Federal contract awards. The BDSA is responsible for estimates of the value put in place of all other types of private construction. BDSA also develops the data on State and local contract awards, the indexes of seasonal variation and composite construction cost, the seasonally adjusted and constant price series for new construction, and estimates of the value of maintenance and repair.

The statistics on the value of contract awards in the 37 Eastern States are compiled by the F. W. Dodge Corporation. The construction cost indexes published in this report are the work of a variety of public agencies and private firms, as noted on the tables and described in appendix B, Derivation of the Estimates. The series on building materials prices and on hourly earnings in contract construction are prepared by BLS.

(II)



# CONSTRUCTION VOLUME AND COSTS, 1915-56

## Section I.—CONSTRUCTION PUT IN PLACE

Table 1.—TOTAL CONSTRUCTION, ANNUALLY, 1915-56

[Value, in millions of dollars]

Year	Total construction activity	New construction			Percent public of total new	Maintenance and repair <sup>1</sup>
		Total	Private	Public <sup>1</sup>		
1915.....	4,973	3,262	2,543	719	22.0	1,711
1916.....	5,657	3,849	3,141	708	18.4	1,808
1917.....	6,496	4,569	3,290	1,279	28.0	1,927
1918.....	7,365	5,118	2,880	2,238	43.7	2,247
1919.....	8,857	6,296	4,320	1,976	31.4	2,561
1920.....	9,731	6,749	5,397	1,352	20.0	2,982
1921.....	8,867	6,004	4,440	1,564	26.0	2,863
1922.....	10,607	7,647	5,963	1,684	22.0	2,960
1923.....	12,541	9,332	7,710	1,622	17.4	3,209
1924.....	13,787	10,407	8,506	1,901	18.3	3,380
1925.....	14,972	11,439	9,301	2,138	18.7	3,533
1926.....	15,833	12,082	9,938	2,144	17.7	3,751
1927.....	15,960	12,034	9,625	2,409	20.0	3,926
1928.....	15,618	11,641	9,156	2,485	21.3	3,977
1929.....	14,994	10,793	8,307	2,486	23.0	4,201
1930.....	12,615	8,741	5,883	2,858	32.7	3,874
1931.....	9,659	6,427	3,768	2,659	41.4	3,232
1932.....	6,114	3,538	1,676	1,862	52.6	2,576
1933.....	5,357	2,879	1,231	1,648	57.2	2,478
1934.....	6,662	3,720	1,509	2,211	59.4	2,942
1935.....	7,377	4,232	1,999	2,233	52.8	3,145
1936.....	10,292	6,497	2,981	3,516	54.1	3,795
1937.....	10,894	6,999	3,903	3,096	44.2	3,895
1938.....	10,864	6,980	3,560	3,420	49.0	3,884
1939.....	12,176	8,198	4,389	3,809	46.5	3,978
1940.....	12,801	8,682	5,054	3,628	41.8	4,119
1941.....	16,442	11,957	6,206	5,751	48.1	4,485
1942.....	18,676	14,075	3,415	10,660	75.7	4,601
1943.....	13,299	8,301	1,979	6,322	76.2	4,998
1944.....	10,575	5,259	2,186	3,073	58.4	5,316
1945.....	11,905	5,809	3,411	2,398	41.3	6,096
1946.....	20,799	12,737	10,375	2,362	18.5	8,062
1947.....	28,289	17,915	14,481	3,434	19.2	10,374
1948.....	35,023	23,222	18,395	4,827	20.8	11,801
1949.....	36,129	24,163	17,759	6,404	26.5	11,966
1950.....	42,039	29,955	22,954	7,001	23.4	12,084
1951.....	46,125	32,739	23,320	9,419	28.8	13,386
1952.....	48,903	34,750	23,849	10,901	31.4	14,153
1953.....	51,487	37,118	25,724	11,394	30.7	14,379
1954.....	54,267	39,601	27,679	11,922	30.1	14,666
1955.....	60,424	44,581	32,620	11,961	26.8	15,843
1956.....	63,012	46,060	33,242	12,818	27.8	16,952

<sup>1</sup>Includes work relief expenditures in the years 1933-43.

Table 2.—NEW PRIVATE CONSTRUCTION, ANNUALLY, 1915-56  
[Value, in millions of dollars]

Year	Total private <sup>1</sup>	Residential buildings (nonfarm)				Nonresidential buildings <sup>2</sup>	
		Total	New dwelling units	Additions and alterations	Non-house-keeping	Total	Industrial
1915.....	2,543	1,220	1,040	140	40	478	197
1916.....	3,141	1,375	1,170	145	60	716	282
1917.....	3,290	1,190	1,000	125	65	800	384
1918.....	2,880	915	760	110	45	731	449
1919.....	4,320	1,850	1,645	130	75	1,082	621
1920.....	5,397	2,015	1,710	175	130	1,964	1,099
1921.....	4,440	2,105	1,795	185	125	1,434	574
1922.....	5,983	3,360	2,955	200	205	1,457	467
1923.....	7,710	4,400	3,960	210	230	1,697	549
1924.....	8,506	5,060	4,575	230	255	1,675	460
1925.....	9,301	5,515	4,910	250	355	2,060	513
1926.....	9,938	5,600	4,920	270	410	2,513	727
1927.....	9,625	5,160	4,540	290	330	2,534	886
1928.....	9,156	4,770	4,195	315	260	2,573	802
1929.....	8,307	3,625	3,040	340	245	2,694	940
1930.....	5,883	2,075	1,570	305	200	2,003	532
1931.....	3,768	1,565	1,320	175	70	1,099	221
1932.....	1,676	630	485	105	40	502	74
1933.....	1,231	470	290	145	35	406	176
1934.....	1,509	625	380	200	45	456	191
1935.....	1,999	1,010	710	250	50	472	158
1936.....	2,981	1,565	1,210	295	60	713	266
1937.....	3,903	1,875	1,475	320	80	1,085	492
1938.....	3,560	1,990	1,620	295	75	764	232
1939.....	4,389	2,680	2,270	320	90	786	254
1940.....	5,054	2,985	2,560	335	90	1,025	442
1941.....	6,206	3,510	3,040	375	95	1,482	801
1942.....	3,415	1,715	1,440	225	50	635	346
1943.....	1,979	885	710	160	15	233	156
1944.....	2,186	815	570	220	25	351	208
1945.....	3,411	1,276	720	516	40	1,020	642
1946.....	10,375	4,752	3,300	1,307	145	3,341	1,689
1947.....	14,481	7,535	5,450	1,960	125	3,142	1,702
1948.....	18,395	10,122	7,500	2,467	155	3,621	1,397
1949.....	17,759	9,642	7,257	2,200	185	3,228	972
1950.....	22,954	14,100	11,525	2,400	175	3,777	1,042
1951.....	23,320	12,529	9,849	2,490	190	5,152	2,117
1952.....	23,849	12,842	9,870	2,787	185	5,014	2,320
1953.....	25,724	13,777	10,555	2,955	267	5,680	2,229
1954.....	27,679	15,379	12,070	3,013	296	6,250	2,030
1955.....	32,620	18,705	14,990	3,376	339	7,611	2,399
1956.....	33,242	17,632	13,490	3,695	447	8,817	3,084

<sup>1</sup>Public industrial and commercial building not segregable from private construction, 1915-32; amount believed negligible. <sup>2</sup>Excludes nonresidential building by privately owned public utilities.

Table 2.—NEW PRIVATE CONSTRUCTION, ANNUALLY, 1915-56—Continued  
[Value, in millions of dollars]

Year	Nonresidential buildings—Continued <sup>2</sup>						
	Office buildings and warehouses	Stores, restaurants, and garages	Religious	Educational	Social and recreational	Hospital and institutional	Miscellaneous non-residential
1915.....	(3)	(3)	(3)	(3)	(3)	(3)	(3)
1916.....	(3)	(3)	(3)	(3)	(3)	(3)	(3)
1917.....	(3)	(3)	(3)	(3)	(3)	(3)	(3)
1918.....	(3)	(3)	(3)	(3)	(3)	(3)	(3)
1919.....	(3)	(3)	(3)	(3)	(3)	(3)	(3)
1920.....	258	367	55	22	104	30	29
1921.....	258	312	71	32	119	44	24
1922.....	286	327	103	61	132	53	28
1923.....	292	424	117	83	128	57	47
1924.....	304	436	130	91	131	63	60
1925.....	357	583	165	108	199	79	56
1926.....	393	714	177	108	255	83	56
1927.....	409	736	179	106	252	106	50
1928.....	451	670	168	107	224	100	51
1929.....	619	516	147	120	173	104	66
1930.....	596	297	135	118	148	109	63
1931.....	276	178	87	100	123	71	43
1932.....	117	106	45	53	60	34	13
1933.....	44	86	22	15	34	10	19
1934.....	66	107	21	14	33	9	15
1935.....	75	136	28	17	34	10	14
1936.....	111	179	34	40	54	17	12
1937.....	137	250	44	42	73	31	16
1938.....	95	190	51	40	97	35	24
1939.....	81	211	48	39	100	31	22
1940.....	91	257	59	50	67	33	26
1941.....	123	286	62	58	72	46	34
1942.....	62	93	31	24	30	29	20
1943.....	14	19	6	6	7	11	14
1944.....	17	39	11	11	17	26	22
1945.....	56	147	26	31	27	37	54
1946.....	331	301	76	123	125	85	111
1947.....	237	619	126	174	99	110	75
1948.....	352	901	251	253	224	126	117
1949.....	321	706	360	269	262	202	136
1950.....	402	886	409	294	247	344	133
1951.....	544	827	452	345	164	419	284
1952.....	515	622	399	351	125	394	288
1953.....	739	1,052	472	426	163	317	282
1954.....	958	1,254	593	529	228	337	321
1955.....	1,311	1,907	734	492	239	351	178
1956.....	1,684	1,947	768	536	275	328	195

<sup>2</sup> Excludes nonresidential building by privately owned public utilities.

<sup>3</sup> Not available separately; included in total.

Table 2.—NEW PRIVATE CONSTRUCTION, ANNUALLY, 1915-56—Continued  
[Value, in millions of dollars]

Year	Farm construction			Public utilities				
	Total	Operators' dwellings	Service buildings	Total	Railroad	Local transit	Petroleum pipe line	Electric light and power <sup>a</sup>
1915.....	229	109	120	549	241	112	20	92
1916.....	324	154	170	658	281	109	20	117
1917.....	449	199	250	788	361	154	20	123
1918.....	478	203	275	697	365	107	24	102
1919.....	653	273	380	673	266	63	56	156
1920.....	566	266	300	771	184	82	41	262
1921.....	223	98	125	604	184	59	30	163
1922.....	269	119	150	787	176	85	41	229
1923.....	317	142	175	1,191	361	74	53	412
1924.....	298	133	165	1,356	365	56	70	463
1925.....	311	141	170	1,302	393	52	55	421
1926.....	297	137	160	1,415	491	51	36	362
1927.....	355	160	195	1,450	462	77	80	362
1928.....	331	156	175	1,372	433	90	53	338
1929.....	307	147	160	1,578	510	82	97	350
1930.....	193	107	86	1,527	521	85	30	377
1931.....	97	59	38	946	292	69	77	225
1932.....	37	24	13	467	139	29	37	109
1933.....	49	29	20	261	94	21	7	59
1934.....	66	36	30	326	128	30	12	66
1935.....	126	61	65	363	116	40	20	87
1936.....	161	76	85	518	149	45	41	139
1937.....	207	100	107	705	199	39	67	218
1938.....	171	79	92	605	119	41	21	267
1939.....	212	106	106	683	137	54	35	303
1940.....	240	145	95	771	167	50	30	311
1941.....	310	182	128	872	187	30	60	305
1942.....	260	135	125	786	197	12	80	255
1943.....	284	121	163	570	211	14	77	144
1944.....	283	108	175	725	247	15	71	163
1945.....	267	100	167	827	264	18	42	245
1946.....	856	409	447	1,374	258	35	63	443
1947.....	1,397	683	714	2,338	318	56	121	793
1948.....	1,544	738	806	3,043	379	60	150	1,058
1949.....	1,488	695	793	3,323	352	40	157	1,368
1950.....	1,635	763	872	3,330	315	40	165	1,266
1951.....	1,846	863	983	3,729	399	40	175	1,353
1952.....	1,905	890	1,015	4,003	438	35	230	1,650
1953.....	1,731	809	922	4,416	442	30	271	1,829
1954.....	1,645	769	876	4,284	353	25	300	1,843
1955.....	1,600	750	850	4,543	374	25	325	1,767
1956.....	1,560	730	830	5,113	427	25	350	1,845

<sup>a</sup> Includes construction with Rural Electrification Administration funds.

Table 2.—NEW PRIVATE CONSTRUCTION, ANNUALLY, 1915-56—Continued  
[Value, in millions of dollars]

Year	Public utilities—Continued					All other private		
	Manufactured and natural gas			Telephone	Telegraph	Total	Sewer and water systems	All other <sup>5</sup>
	Total	Manufactured gas	Natural gas					
1915.....	41	( <sup>3</sup> )	( <sup>3</sup> )	35	8	67	10	57
1916.....	70	( <sup>3</sup> )	( <sup>3</sup> )	53	8	68	9	59
1917.....	45	( <sup>3</sup> )	( <sup>3</sup> )	74	11	63	9	54
1918.....	26	( <sup>3</sup> )	( <sup>3</sup> )	58	15	59	10	49
1919.....	56	( <sup>3</sup> )	( <sup>3</sup> )	64	12	62	12	50
1920.....	78	( <sup>3</sup> )	( <sup>3</sup> )	109	15	81	15	66
1921.....	66	( <sup>3</sup> )	( <sup>3</sup> )	90	12	74	17	57
1922.....	139	( <sup>3</sup> )	( <sup>3</sup> )	107	10	90	18	72
1923.....	133	( <sup>3</sup> )	( <sup>3</sup> )	143	15	105	18	87
1924.....	206	( <sup>3</sup> )	( <sup>3</sup> )	177	19	117	24	93
1925.....	171	( <sup>3</sup> )	( <sup>3</sup> )	192	18	113	23	90
1926.....	248	( <sup>3</sup> )	( <sup>3</sup> )	206	21	113	22	91
1927.....	257	( <sup>3</sup> )	( <sup>3</sup> )	196	16	126	22	104
1928.....	212	( <sup>3</sup> )	( <sup>3</sup> )	227	19	110	19	91
1929.....	185	72	113	328	26	103	18	85
1930.....	181	63	118	310	23	85	26	59
1931.....	117	48	69	154	12	61	20	41
1932.....	66	30	36	80	7	40	11	29
1933.....	35	13	22	41	4	45	6	39
1934.....	43	16	27	43	4	36	7	29
1935.....	48	18	30	48	4	28	9	19
1936.....	77	16	61	62	5	24	9	15
1937.....	80	22	58	96	6	31	9	22
1938.....	65	17	48	87	5	30	9	21
1939.....	61	16	45	89	4	28	9	19
1940.....	91	33	58	117	5	33	15	18
1941.....	111	40	71	173	6	32	18	14
1942.....	87	34	53	150	5	19	8	11
1943.....	63	15	48	56	5	7	3	4
1944.....	146	14	132	78	5	12	7	5
1945.....	141	21	120	112	5	21	11	10
1946.....	270	42	228	298	7	52	18	34
1947.....	540	78	462	502	8	69	33	36
1948.....	683	83	600	706	7	65	39	26
1949.....	873	66	807	527	6	78	24	54
1950.....	1,102	61	1,041	435	5	112	32	80
1951.....	1,275	59	1,216	482	5	64	27	37
1952.....	1,080	55	1,025	565	5	85	38	47
1953.....	1,229	50	1,179	610	5	120	44	76
1954.....	1,108	58	1,050	650	5	121	54	67
1955.....	1,247	49	1,198	800	5	161	64	97
1956.....	1,400	45	1,355	1,080	6	120	52	68

<sup>3</sup> Not available separately; included in total.<sup>5</sup> Includes roads, bridges, and miscellaneous nonstructural items such as parks and playgrounds.

Table 3.—NEW PUBLIC CONSTRUCTION, ANNUALLY, 1915-56

[Value, in millions of dollars]

Year	Total public <sup>1</sup>	Residential buildings	Nonresidential buildings			
			Total	Industrial	Administrative and service	Educational
1915.....	719	.....	217	( <sup>1</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
1916.....	708	.....	207	( <sup>1</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
1917.....	1,279	.....	192	( <sup>1</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
1918.....	2,238	28	199	( <sup>1</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
1919.....	1,976	14	246	( <sup>1</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
1920.....	1,352	.....	283	( <sup>1</sup> )	38	190
1921.....	1,564	.....	387	( <sup>1</sup> )	51	274
1922.....	1,684	.....	481	( <sup>1</sup> )	55	342
1923.....	1,622	.....	481	( <sup>1</sup> )	44	346
1924.....	1,801	.....	494	( <sup>1</sup> )	39	353
1925.....	2,138	.....	573	( <sup>1</sup> )	56	400
1926.....	2,144	.....	603	( <sup>1</sup> )	70	399
1927.....	2,409	.....	596	( <sup>1</sup> )	84	367
1928.....	2,485	.....	638	( <sup>1</sup> )	85	378
1929.....	2,486	.....	659	( <sup>1</sup> )	109	383
1930.....	2,658	.....	660	( <sup>1</sup> )	128	364
1931.....	2,659	.....	612	( <sup>1</sup> )	183	285
1932.....	1,862	.....	415	( <sup>1</sup> )	183	130
1933.....	1,648	.....	230	2	109	52
1934.....	2,211	1	363	11	87	148
1935.....	2,233	9	328	2	90	153
1936.....	3,516	61	701	4	161	366
1937.....	3,096	93	550	2	143	253
1938.....	3,420	35	672	12	165	311
1939.....	3,809	65	970	23	234	468
1940.....	3,628	200	615	164	149	156
1941.....	5,751	430	1,646	1,280	105	158
1942.....	10,660	545	3,685	3,437	56	128
1943.....	6,322	739	2,010	1,870	15	63
1944.....	3,073	211	1,361	1,230	11	41
1945.....	2,398	80	937	755	15	69
1946.....	2,362	374	354	113	16	101
1947.....	3,434	200	599	96	36	287
1948.....	4,827	156	1,301	196	91	618
1949.....	6,404	359	2,068	177	153	934
1950.....	7,001	345	2,384	224	213	1,133
1951.....	9,419	595	3,497	974	223	1,513
1952.....	10,901	654	4,136	1,684	163	1,619
1953.....	11,394	556	4,346	1,771	181	1,714
1954.....	11,922	336	4,636	1,506	264	2,134
1955.....	11,961	266	4,218	721	331	2,442
1956.....	12,618	292	4,072	453	362	2,549

<sup>1</sup>Public industrial and commercial building not segregable from private construction, 1915-32; amount believed negligible. Beginning with 1933 public commercial buildings are included under miscellaneous non-residential. <sup>2</sup>Not available separately; included in total. Note: Leaders (...) represent zero.



Table 3.—NEW PUBLIC CONSTRUCTION, ANNUALLY, 1915-56—Continued

[Value, in millions of dollars]

Year	Nonresidential buildings—continued			Military facilities	Sewer and water systems		
	Social and recreational	Hospital and institutional	Miscellaneous non-residential <sup>1</sup>		Total	Sewer	Water
1915.....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	17	106	52	54
1916.....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	21	95	46	49
1917.....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	608	91	45	46
1918.....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1,555	94	38	56
1919.....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1,089	124	53	71
1920.....	12	33	10	161	153	67	86
1921.....	14	40	8	49	178	78	100
1922.....	15	60	9	25	201	88	113
1923.....	20	55	16	16	203	90	113
1924.....	22	60	20	9	263	108	155
1925.....	37	61	19	8	278	133	145
1926.....	47	68	19	11	285	145	140
1927.....	48	80	17	12	312	174	138
1928.....	50	108	17	15	300	183	117
1929.....	38	101	22	19	253	127	126
1930.....	28	118	22	29	343	142	201
1931.....	19	110	15	40	270	114	156
1932.....	16	83	3	34	156	69	87
1933.....	7	49	11	36	95	45	50
1934.....	37	51	29	47	173	102	71
1935.....	27	38	18	37	175	101	74
1936.....	63	74	33	29	342	230	112
1937.....	44	73	35	37	311	209	102
1938.....	49	97	38	62	355	235	120
1939.....	58	127	60	125	371	243	128
1940.....	26	54	66	385	338	184	154
1941.....	22	42	39	1,620	252	118	134
1942.....	9	35	20	5,016	169	76	93
1943.....	8	44	10	2,550	107	37	70
1944.....	7	58	14	937	79	26	53
1945.....	9	85	14	690	97	37	60
1946.....	11	85	28	188	194	97	97
1947.....	18	85	77	204	351	188	163
1948.....	67	223	106	158	535	300	235
1949.....	108	477	219	137	619	354	265
1950.....	140	496	178	177	659	383	276
1951.....	107	528	152	887	775	425	350
1952.....	51	473	146	1,388	790	435	355
1953.....	103	365	212	1,307	883	520	363
1954.....	123	360	249	1,030	982	568	414
1955.....	177	322	225	1,313	1,085	615	470
1956.....	138	298	272	1,395	1,275	701	574

<sup>1</sup>Public industrial and commercial building not segregable from private construction, 1915-32; amount believed negligible. Beginning with 1933 public commercial buildings are included under miscellaneous non-residential.

<sup>2</sup>Not available separately; included in total.

Table 3.—NEW PUBLIC CONSTRUCTION, ANNUALLY, 1915-56—Continued  
 [Value, in millions of dollars]

Year	Highway					Public service enterprises
	Total	Federal	State	County	Municipal	
1915.....	302	( <sup>3</sup> )	58	106	138	40
1916.....	314	( <sup>3</sup> )	54	114	146	42
1917.....	320	( <sup>3</sup> )	66	109	145	40
1918.....	296	1	78	105	112	36
1919.....	429	3	134	127	165	34
1920.....	656	4	250	186	216	39
1921.....	853	3	295	356	199	41
1922.....	876	4	304	346	222	47
1923.....	805	7	305	258	235	45
1924.....	987	9	411	271	296	65
1925.....	1,082	10	424	277	371	120
1926.....	1,067	10	390	279	388	111
1927.....	1,222	10	438	303	471	192
1928.....	1,289	11	522	294	462	157
1929.....	1,266	11	540	269	446	151
1930.....	1,516	17	692	310	497	157
1931.....	1,355	22	710	259	364	209
1932.....	958	21	535	183	219	135
1933.....	847	44	498	157	148	65
1934.....	1,000	61	568	237	134	55
1935.....	845	64	434	210	137	71
1936.....	1,362	53	628	497	184	167
1937.....	1,226	42	601	429	154	134
1938.....	1,421	37	562	638	184	137
1939.....	1,381	35	537	560	249	136
1940.....	1,302	30	597	468	207	131
1941.....	1,066	26	548	350	142	141
1942.....	734	17	420	209	88	85
1943.....	446	7	279	105	55	49
1944.....	362	7	224	78	53	46
1945.....	398	11	236	87	64	55
1946.....	895	26	574	171	124	84
1947.....	1,451	34	926	262	229	141
1948.....	1,774	39	1,142	323	270	164
1949.....	2,131	57	1,348	384	342	184
1950.....	2,272	46	1,507	352	367	160
1951.....	2,518	42	1,718	369	389	184
1952.....	2,820	50	1,892	455	423	168
1953.....	3,160	58	2,147	512	443	167
1954.....	3,870	55	2,780	540	495	189
1955.....	4,050	75	2,855	595	525	233
1956.....	4,470	85	3,160	660	565	384

<sup>3</sup> Less than 0.5 million dollars.

Table 3.—NEW PUBLIC CONSTRUCTION, ANNUALLY, 1915-56—Continued  
[Value, in millions of dollars]

Year	Conservation and development					All other public <sup>4</sup>
	Total	Bureau of Reclamation	Corps of Engineers	T.V.A.	Other	
1915.....	36	7	27	.....	2	1
1916.....	28	6	20	.....	2	1
1917.....	27	6	18	.....	3	1
1918.....	29	6	20	.....	3	1
1919.....	36	5	29	.....	5	1
1920.....	55	5	41	.....	9	5
1921.....	52	7	36	.....	9	4
1922.....	48	9	30	.....	9	6
1923.....	65	9	43	.....	13	7
1924.....	79	8	55	.....	16	4
1925.....	73	7	51	.....	15	4
1926.....	61	6	41	.....	14	6
1927.....	63	6	40	.....	17	12
1928.....	72	7	46	.....	19	14
1929.....	115	8	59	.....	48	23
1930.....	137	11	75	.....	51	16
1931.....	156	20	81	.....	55	17
1932.....	150	26	81	.....	43	14
1933.....	359	26	102	5	226	16
1934.....	518	35	142	17	326	54
1935.....	700	47	177	28	448	68
1936.....	658	56	192	32	378	106
1937.....	605	60	176	30	339	140
1938.....	551	67	157	31	296	187
1939.....	570	72	157	32	309	191
1940.....	528	74	158	38	258	129
1941.....	500	79	159	83	179	96
1942.....	357	60	150	131	16	<sup>5</sup> 69
1943.....	285	42	160	78	7	<sup>5</sup> 136
1944.....	163	36	73	45	9	<sup>5</sup> 14
1945.....	130	39	63	18	10	11
1946.....	260	60	147	17	36	13
1947.....	424	125	222	28	49	64
1948.....	670	175	383	39	73	69
1949.....	852	223	501	34	94	54
1950.....	942	255	538	48	101	62
1951.....	912	207	480	109	116	51
1952.....	900	182	483	124	111	45
1953.....	892	157	489	124	122	83
1954.....	773	129	400	125	119	106
1955.....	701	104	360	74	163	95
1956.....	826	110	433	45	238	104

<sup>4</sup>Includes publicly owned parks and playgrounds, memorials, etc. <sup>5</sup>Includes petroleum pipe lines as follows: \$25 million in 1942, \$125 million in 1943, and \$4 million in 1944.

Note: Leaders (...) represent zero.

Table 4.—NEW PUBLIC CONSTRUCTION, BY SOURCE AND TYPE OF FUNDS, AND OWNERSHIP, ANNUALLY, 1915-56<sup>1</sup>  
 [Value, in millions of dollars]

Year	Total public construction				Residential buildings			
	All public sources	Federal		State and local	All public sources	Federal		State and local
		Direct	Federal aid			Direct	Federal aid	
1915.....	719	71	.....	648	.....	.....	.....	.....
1916.....	708	66	.....	642	.....	.....	.....	.....
1917.....	1,279	654	5	620	.....	.....	.....	.....
1918.....	2,238	1,634	10	594	28	28	.....	.....
1919.....	1,976	1,162	65	749	14	14	.....	.....
1920.....	1,352	232	95	1,025	.....	.....	.....	.....
1921.....	1,564	122	78	1,364	.....	.....	.....	.....
1922.....	1,684	100	78	1,506	.....	.....	.....	.....
1923.....	1,622	108	77	1,437	.....	.....	.....	.....
1924.....	1,901	111	100	1,690	.....	.....	.....	.....
1925.....	2,138	100	89	1,949	.....	.....	.....	.....
1926.....	2,144	92	82	1,970	.....	.....	.....	.....
1927.....	2,409	98	81	2,230	.....	.....	.....	.....
1928.....	2,485	122	85	2,278	.....	.....	.....	.....
1929.....	2,486	155	80	2,251	.....	.....	.....	.....
1930.....	2,858	209	104	2,545	.....	.....	.....	.....
1931.....	2,659	271	235	2,153	.....	.....	.....	.....
1932.....	1,862	333	111	1,418	.....	.....	.....	.....
1933.....	1,648	516	286	846	.....	.....	.....	.....
1934.....	2,211	626	721	864	1	1	.....	.....
1935.....	2,233	814	567	852	9	9	.....	.....
1936.....	3,516	797	1,566	1,153	61	61	.....	.....
1937.....	3,096	776	1,117	1,203	93	93	.....	.....
1938.....	3,420	717	1,320	1,383	35	32	.....	3
1939.....	3,809	759	1,377	1,673	65	4	.....	61
1940.....	3,628	1,182	946	1,500	200	4	.....	196
1941.....	5,751	3,751	697	1,303	430	215	.....	215
1942.....	10,660	9,313	475	872	545	363	.....	182
1943.....	6,322	5,609	268	445	739	694	.....	45
1944.....	3,073	2,505	126	442	211	203	.....	8
1945.....	2,398	1,737	99	562	80	80	.....	.....
1946.....	2,362	870	244	1,248	374	248	61	65
1947.....	3,434	840	409	2,185	200	9	111	80
1948.....	4,827	1,177	417	3,233	156	33	10	113
1949.....	6,404	1,488	461	4,455	359	33	.....	326
1950.....	7,001	1,625	465	4,911	345	15	.....	330
1951.....	9,419	2,982	479	5,958	595	10	.....	585
1952.....	10,901	4,186	619	6,096	654	16	.....	638
1953.....	11,394	4,151	700	6,543	556	21	.....	535
1954.....	11,922	3,445	709	7,768	336	5	.....	331
1955.....	11,961	2,800	758	8,403	266	2	.....	264
1956.....	12,818	2,774	861	9,183	292	17	.....	275

<sup>1</sup>For method of deriving data on an ownership basis, see Appendix A, page 70.

Note: Leaders (...) represent zero.

Table 4.—NEW PUBLIC CONSTRUCTION BY SOURCE AND TYPE OF FUNDS, AND OWNERSHIP, ANNUALLY, 1915-56<sup>1</sup>—Continued

[Value, in millions of dollars]

Year	Nonresidential buildings				Highways			
	All public sources	Federal		State and local	All public sources	Federal		State and local
		Direct	Federal aid			Direct	Federal aid	
1915.....	217	17	.....	200	302	.....	.....	302
1916.....	207	16	.....	191	314	.....	.....	314
1917.....	192	18	.....	174	320	.....	5	315
1918.....	199	20	.....	179	296	1	10	285
1919.....	246	16	.....	230	429	3	65	361
1920.....	283	11	.....	272	656	4	95	557
1921.....	387	17	.....	370	853	3	78	772
1922.....	481	21	.....	460	876	4	78	794
1923.....	481	18	.....	463	805	7	77	721
1924.....	494	13	.....	481	987	9	190	878
1925.....	573	8	.....	565	1,082	10	89	983
1926.....	603	8	.....	595	1,067	10	82	975
1927.....	596	10	.....	586	1,222	10	81	1,131
1928.....	638	14	.....	624	1,289	11	85	1,193
1929.....	659	26	.....	633	1,266	11	80	1,175
1930.....	660	43	.....	617	1,516	17	104	1,395
1931.....	612	65	.....	547	1,355	22	235	1,098
1932.....	415	133	.....	282	958	21	111	826
1933.....	230	94	9	127	847	44	232	571
1934.....	363	64	61	238	1,000	61	476	463
1935.....	328	59	72	197	845	64	326	455
1936.....	701	76	314	311	1,362	53	766	543
1937.....	550	82	233	235	1,226	42	538	646
1938.....	672	85	213	374	1,421	37	716	668
1939.....	970	80	367	523	1,381	35	603	743
1940.....	615	233	172	210	1,302	30	513	759
1941.....	1,646	1,357	97	192	1,066	26	391	649
1942.....	3,685	3,500	69	116	734	17	278	439
1943.....	2,010	1,909	32	69	446	7	192	247
1944.....	1,361	1,271	28	62	362	7	84	271
1945.....	937	808	29	100	398	11	59	328
1946.....	354	156	.....	198	895	26	180	689
1947.....	599	191	.....	408	1,451	34	296	1,121
1948.....	1,301	313	2	986	1,774	39	395	1,350
1949.....	2,068	463	25	1,580	2,131	57	406	1,668
1950.....	2,384	499	42	1,843	2,272	46	397	1,829
1951.....	3,497	1,183	57	2,257	2,518	42	397	2,079
1952.....	4,136	1,871	103	2,162	2,820	50	494	2,276
1953.....	4,346	1,928	172	2,246	3,160	58	507	2,595
1954.....	4,636	1,641	110	2,885	3,870	55	587	3,228
1955.....	4,218	802	111	3,305	4,050	75	635	3,340
1956.....	4,072	588	107	3,377	4,470	85	740	3,645

<sup>1</sup>For method of deriving data on an ownership basis, see Appendix A, page 70.

Note: Leaders (...) represent zero.

Table 4.—NEW PUBLIC CONSTRUCTION BY SOURCE AND TYPE OF FUNDS, AND OWNERSHIP, ANNUALLY, 1915-56<sup>1</sup>—Continued  
[Value, in millions of dollars]

Year	Sewer and water systems				Conservation and development			
	All public sources	Federal		State and local	All public sources	Federal		State and local
		Direct	Federal aid			Direct	Federal aid	
1915.....	106	.....	.....	106	36	36	.....	.....
1916.....	95	.....	.....	95	28	28	.....	.....
1917.....	91	.....	.....	91	27	27	.....	.....
1918.....	94	.....	.....	94	29	29	.....	.....
1919.....	124	.....	.....	124	39	39	.....	.....
1920.....	153	.....	.....	153	55	55	.....	.....
1921.....	178	.....	.....	178	52	52	.....	.....
1922.....	201	.....	.....	201	48	48	.....	.....
1923.....	203	.....	.....	203	65	65	.....	.....
1924.....	263	.....	.....	263	79	79	.....	.....
1925.....	278	.....	.....	278	73	73	.....	.....
1926.....	285	.....	.....	285	61	61	.....	.....
1927.....	312	.....	.....	312	63	63	.....	.....
1928.....	300	.....	.....	300	72	72	.....	.....
1929.....	253	.....	.....	253	115	86	.....	29
1930.....	343	.....	.....	343	137	111	.....	26
1931.....	270	.....	.....	270	156	135	.....	21
1932.....	156	.....	.....	156	150	139	.....	11
1933.....	95	.....	14	81	359	338	16	5
1934.....	173	.....	69	104	518	445	62	11
1935.....	175	.....	63	112	700	637	45	18
1936.....	342	2	209	131	658	569	50	39
1937.....	311	2	158	151	605	510	39	56
1938.....	355	2	174	179	551	484	30	37
1939.....	371	.....	195	176	570	495	35	40
1940.....	338	.....	129	209	528	495	21	12
1941.....	252	.....	84	168	500	488	7	5
1942.....	169	17	57	95	357	350	4	3
1943.....	107	29	37	41	285	285	.....	.....
1944.....	79	10	14	55	163	163	.....	.....
1945.....	97	7	11	79	130	130	.....	.....
1946.....	194	2	3	189	260	240	.....	20
1947.....	351	.....	.....	351	424	394	.....	30
1948.....	535	.....	.....	535	670	629	.....	41
1949.....	619	.....	.....	619	852	793	.....	59
1950.....	659	.....	.....	659	942	881	.....	61
1951.....	775	.....	.....	775	912	853	.....	59
1952.....	790	.....	.....	790	900	854	.....	46
1953.....	883	.....	9	874	892	830	.....	62
1954.....	982	.....	8	974	773	704	.....	69
1955.....	1,085	.....	2	1,083	701	598	.....	103
1956.....	1,275	.....	2	1,273	826	675	.....	151

<sup>1</sup> For method of deriving data on an ownership basis, see Appendix A, page 70.

Note: Leaders (...) represent zero.



Table 4.—NEW PUBLIC CONSTRUCTION BY SOURCE AND TYPE OF FUNDS, AND OWNERSHIP, ANNUALLY, 1915-56<sup>1</sup>—Continued

[Value, in millions of dollars]

Year	Military facilities <sup>2</sup>	Public service enterprises <sup>3</sup>			All other public			
		All public sources	Federal aid	State and local	All public sources	Federal		State and local
						Direct	Federal aid	
1915.....	17	40	.....	40	1	1	.....	.....
1916.....	21	42	.....	42	1	1	.....	.....
1917.....	608	40	.....	40	1	1	.....	.....
1918.....	1,555	36	.....	36	1	1	.....	.....
1919.....	1,089	34	.....	34	1	1	.....	.....
1920.....	161	39	.....	39	5	1	.....	4
1921.....	49	41	.....	41	4	1	.....	3
1922.....	25	47	.....	47	6	2	.....	4
1923.....	16	45	.....	45	7	2	.....	5
1924.....	9	65	.....	65	4	1	.....	3
1925.....	8	120	.....	120	4	1	.....	3
1926.....	11	111	.....	111	6	2	.....	4
1927.....	12	192	.....	192	12	3	.....	9
1928.....	15	157	.....	157	14	10	.....	4
1929.....	19	151	.....	151	23	13	.....	10
1930.....	29	157	.....	157	16	9	.....	7
1931.....	40	209	.....	209	17	9	.....	8
1932.....	34	135	.....	135	14	6	.....	8
1933.....	36	65	5	60	16	4	10	2
1934.....	47	55	15	40	54	8	38	8
1935.....	37	71	13	58	68	8	48	12
1936.....	29	167	58	109	196	7	169	20
1937.....	37	134	39	95	140	10	110	20
1938.....	62	137	50	87	187	15	137	35
1939.....	125	136	51	85	191	20	126	45
1940.....	385	131	41	90	129	35	70	24
1941.....	1,620	141	78	63	96	45	40	11
1942.....	5,016	85	49	36	69	50	18	1
1943.....	2,550	49	6	43	136	135	1	.....
1944.....	837	46	.....	46	14	14	.....	.....
1945.....	690	55	.....	55	11	11	.....	.....
1946.....	188	84	.....	84	13	10	.....	3
1947.....	204	141	2	139	64	8	.....	56
1948.....	158	164	20	144	69	5	.....	64
1949.....	137	184	30	154	54	5	.....	49
1950.....	177	160	26	134	62	7	.....	55
1951.....	887	184	25	159	51	7	.....	44
1952.....	1,388	168	22	146	45	7	.....	38
1953.....	1,307	167	12	155	83	7	.....	76
1954.....	1,030	189	4	185	106	10	.....	96
1955.....	1,313	233	10	223	95	10	.....	85
1956.....	1,395	384	12	372	104	14	.....	90

<sup>1</sup>For method of deriving data on an ownership basis, see Appendix A, page 70. <sup>2</sup>All federally owned; all direct Federal funds. <sup>3</sup>All State and locally owned; no direct Federal funds.

Note: Leaders (...) represent zero.

Table 5.—NEW CONSTRUCTION, MONTHLY, 1939-56  
[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1939													
TOTAL NEW CONSTRUCTION.....	569	517	560	630	688	757	791	791	787	757	717	634	8,198
PRIVATE CONSTRUCTION.....	314	282	300	345	368	395	411	411	410	401	393	359	4,389
Residential buildings (nonfarm).....	203	174	182	220	229	241	249	249	244	239	234	216	2,680
New dwelling units.....	173	147	154	187	193	203	210	211	207	203	198	184	2,270
Additions and alterations.....	24	21	22	27	29	30	29	28	28	28	28	26	320
Nonhousekeeping.....	6	6	6	6	7	8	10	10	9	8	8	6	90
Nonresidential buildings.....	52	50	52	54	60	70	74	72	76	75	78	73	786
Industrial.....	15	14	15	16	18	21	23	24	26	26	28	28	254
Commercial.....	18	18	19	19	23	27	28	26	28	29	30	27	292
Office buildings and warehouses.	7	7	6	5	5	6	6	6	7	8	9	9	81
Stores, restaurants, and garages	11	11	13	14	18	21	22	20	21	21	21	18	211
Other nonresidential buildings.....	19	18	18	19	19	22	23	22	22	20	20	18	240
Religious.....	3	3	3	3	3	4	5	5	5	5	5	4	48
Educational.....	4	3	3	3	3	4	4	3	3	3	3	3	39
Hospital and institutional.....	3	3	2	3	2	2	2	3	3	2	3	3	31
Social and recreational.....	8	8	8	8	9	10	10	9	9	8	7	6	100
Miscellaneous.....	1	1	2	2	2	2	2	2	2	2	2	2	22
Farm construction.....	13	13	15	16	19	20	23	23	22	18	16	14	212
Operators' dwellings.....	6	6	7	8	9	10	12	12	11	9	9	7	106
Service buildings.....	7	7	8	8	10	10	11	11	11	9	7	7	106
Public utilities.....	43	43	48	52	57	61	62	64	66	68	64	55	683
Railroad.....	9	9	10	11	12	13	13	13	13	13	11	10	137
Telephone and telegraph.....	7	6	7	7	8	8	8	8	8	9	9	8	93
Other public utilities.....	27	28	31	34	37	40	41	43	45	46	44	37	453
All other private.....	3	2	3	3	3	3	3	3	2	1	1	1	28
PUBLIC CONSTRUCTION.....	255	235	260	285	320	362	380	380	377	356	324	275	3,809
Residential buildings.....	3	4	4	3	4	5	5	5	6	8	9	9	65
Nonresidential buildings.....	77	74	79	88	92	95	96	91	84	74	64	56	970
Industrial.....	1	1	1	2	2	2	2	2	3	3	2	2	23
Educational.....	39	39	40	44	45	46	45	42	39	35	29	25	442
Hospital and institutional.....	9	9	10	11	12	13	14	12	11	9	9	8	127
Administrative and service.....	19	18	19	21	21	22	22	21	20	18	17	16	234
Other nonresidential buildings.....	9	7	9	10	12	12	13	14	11	9	7	5	118
Military facilities.....	8	8	9	9	9	10	11	11	11	11	13	15	125
Highways.....	80	67	73	85	112	141	146	151	152	150	129	96	1,381
Sewer and water systems.....	28	26	31	32	32	35	39	36	32	28	27	25	371
Sewer.....	18	17	21	21	21	24	26	24	21	18	17	15	243
Water.....	10	9	10	11	11	11	13	12	11	10	10	10	128
Public service enterprises.....	9	8	10	12	13	14	15	14	12	11	10	8	136
Conservation and development.....	39	38	42	42	43	44	49	52	59	55	55	52	570
All other public.....	11	10	12	14	15	18	19	20	21	19	17	15	191
1940													
TOTAL NEW CONSTRUCTION.....	538	486	534	611	702	772	821	843	854	849	863	809	8,662
PRIVATE CONSTRUCTION.....	331	296	314	359	416	466	483	492	496	487	471	443	5,054
Residential buildings (nonfarm).....	199	168	176	210	250	283	292	295	296	287	277	252	2,985
New dwelling units.....	172	145	149	177	212	243	252	253	253	246	238	220	2,560
Additions and alterations.....	21	17	20	26	31	32	32	33	33	33	31	26	335
Nonhousekeeping.....	6	6	7	7	7	8	8	9	10	8	8	6	90
Nonresidential buildings.....	66	61	63	67	76	87	91	94	100	104	105	111	1,025
Industrial.....	27	26	26	28	30	32	34	38	42	47	51	61	442
Commercial.....	23	22	24	25	29	34	35	32	32	32	31	29	348
Office buildings and warehouses.	8	7	7	7	7	7	8	8	8	8	8	8	91
Stores, restaurants, and garages.	15	15	17	18	22	27	27	24	24	24	23	21	257
Other nonresidential buildings.....	16	13	13	14	17	21	22	24	26	25	23	21	235
Religious.....	4	3	3	3	4	5	5	6	7	7	6	6	59
Educational.....	3	2	2	3	3	4	5	6	6	6	5	5	50
Hospital and institutional.....	3	2	2	2	3	3	3	3	3	3	3	3	33
Social and recreational.....	5	4	4	4	5	7	7	7	7	6	6	5	67
Miscellaneous.....	1	2	2	2	2	2	2	2	3	3	3	2	25
Farm construction.....	14	15	17	19	22	24	25	26	24	20	18	16	240
Operators' dwellings.....	8	9	10	11	13	15	15	16	15	12	11	10	145
Service buildings.....	6	6	7	8	9	9	10	10	9	8	7	6	95

Table 5.--NEW CONSTRUCTION, MONTHLY, 1939-56--Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1940--Continued													
PRIVATE--Continued													
Public utilities.....	51	50	55	60	65	69	72	74	73	73	68	61	771
Railroad.....	10	10	11	13	15	15	16	17	17	17	14	12	167
Telephone and telegraph.....	8	8	9	9	10	10	10	10	11	12	13	12	122
Other public utilities.....	33	32	35	38	40	44	46	47	45	44	41	37	482
All other private.....	1	2	3	3	3	3	3	3	3	3	3	3	33
PUBLIC CONSTRUCTION.....	207	190	220	252	286	306	338	351	358	362	392	366	3,628
Residential buildings.....	12	13	16	16	16	16	16	16	17	19	21	22	200
Nonresidential buildings.....	50	41	43	44	44	46	50	54	57	60	63	63	615
Industrial.....	3	3	3	5	6	6	9	13	20	26	32	38	164
Educational.....	20	15	14	12	12	13	13	13	12	12	11	9	156
Hospital and institutional.....	6	5	4	4	4	5	5	5	5	4	4	3	54
Administrative and service.....	15	14	15	15	13	12	12	12	11	11	10	9	149
Other nonresidential buildings.....	6	4	7	8	9	10	11	11	9	7	6	4	92
Military facilities.....	14	12	14	14	14	14	15	17	18	30	98	125	385
Highways.....	47	48	60	84	114	128	151	160	162	154	119	75	1,302
Sewer and water systems.....	22	23	28	31	32	33	34	31	31	26	24	23	338
Sewer.....	12	12	16	17	17	17	18	17	17	14	14	13	184
Water.....	10	11	12	14	15	16	16	14	14	12	10	10	154
Public service enterprises.....	8	7	9	11	13	14	14	15	13	11	9	7	131
Conservation and development.....	41	36	39	41	41	43	46	46	49	52	50	44	528
All other public.....	13	10	11	11	12	12	12	12	11	10	8	7	129
1941													
TOTAL NEW CONSTRUCTION.....	794	767	836	888	965	1,045	1,108	1,167	1,168	1,174	1,095	950	11,957
PRIVATE CONSTRUCTION.....	418	391	414	470	540	592	626	619	594	567	524	451	6,206
Residential buildings (nonfarm).....	231	199	207	252	305	346	375	374	352	328	295	246	3,510
New dwelling units.....	203	172	177	215	262	299	326	324	304	284	257	217	3,040
Additions and alterations.....	22	21	23	30	36	39	40	40	38	34	30	22	375
Nonhousekeeping.....	6	6	7	7	7	8	9	10	10	10	8	7	95
Nonresidential buildings.....	114	118	123	124	130	133	131	123	124	125	123	114	1,482
Industrial.....	69	74	75	74	72	68	63	58	58	62	65	63	801
Commercial.....	26	26	28	31	35	41	42	39	40	37	34	30	409
Office buildings and warehouses.....	8	8	8	9	9	11	12	12	13	11	11	11	123
Stores, restaurants, and garages.....	18	18	20	22	26	30	30	27	27	26	23	19	286
Other nonresidential buildings.....	19	18	20	19	23	24	26	26	26	26	24	21	272
Religious.....	5	4	4	4	5	5	6	6	6	6	6	5	62
Educational.....	5	5	5	4	5	5	5	5	5	5	5	4	58
Hospital and institutional.....	3	3	3	3	4	4	4	4	5	5	4	4	46
Social and recreational.....	4	4	5	5	6	7	7	8	7	7	6	6	72
Miscellaneous.....	2	2	3	3	3	3	4	3	3	3	3	2	34
Farm construction.....	16	18	20	24	28	32	35	36	32	27	23	19	310
Operators' dwellings.....	10	11	12	14	16	19	20	21	19	16	13	11	182
Service buildings.....	6	7	8	10	12	13	15	15	13	11	10	8	128
Public utilities.....	54	53	61	67	74	78	82	83	83	85	81	71	872
Railroad.....	12	12	13	15	16	17	17	17	17	19	16	16	187
Telephone and telegraph.....	12	11	13	14	15	16	16	16	16	17	18	15	179
Other public utilities.....	30	30	35	38	43	45	49	50	50	49	47	40	506
All other private.....	3	3	3	3	3	3	3	3	3	2	2	1	32
PUBLIC CONSTRUCTION.....	376	376	422	418	425	453	482	548	574	607	571	499	5,751
Residential buildings.....	28	29	30	33	38	38	38	42	41	40	37	36	430
Nonresidential buildings.....	67	74	95	117	132	152	163	168	174	179	167	158	1,646
Industrial.....	43	53	68	87	101	118	128	132	138	143	136	133	1,280
Educational.....	9	9	10	11	12	13	14	15	16	18	17	14	158
Hospital and institutional.....	3	2	4	4	4	4	4	4	4	4	3	2	42
Administrative and service.....	9	7	9	9	9	10	10	10	10	9	7	6	105
Other nonresidential buildings.....	3	3	4	6	6	7	7	7	6	5	4	3	61
Military facilities.....	168	167	174	121	72	59	64	113	141	185	187	169	1,620
Highways.....	40	41	46	65	97	115	124	131	128	114	98	67	1,066
Sewer and water systems.....	21	19	20	22	24	24	25	24	21	19	17	16	252
Sewer.....	11	9	9	10	11	11	12	11	10	9	8	7	118
Water.....	10	10	11	12	13	13	13	13	11	10	9	9	134
Public service enterprises.....	8	7	11	12	13	15	15	16	13	12	11	8	141
Conservation and development.....	37	33	39	40	40	41	43	44	47	50	47	39	500
All other public.....	7	6	7	8	9	9	10	10	9	8	7	6	96

Table 5.—NEW CONSTRUCTION, MONTHLY, 1939-56—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	1942												
TOTAL NEW CONSTRUCTION.....	861	828	1,035	1,103	1,181	1,274	1,533	1,457	1,408	1,315	1,151	929	14,075
PRIVATE CONSTRUCTION.....	386	337	337	354	341	299	262	248	241	228	205	177	3,415
Residential buildings (nonfarm).....	202	170	177	202	198	157	122	107	106	104	92	78	1,715
New dwelling units.....	175	146	150	171	165	132	100	86	85	84	78	68	1,440
Additions and alterations.....	21	18	21	26	28	20	17	17	18	17	13	9	225
Nonhousekeeping.....	6	6	6	5	5	5	5	4	3	3	1	1	50
Nonresidential buildings.....	102	86	72	60	50	45	40	40	41	37	33	29	635
Industrial.....	57	49	38	28	21	20	20	22	24	24	23	20	346
Commercial.....	26	21	20	18	17	13	11	9	8	5	4	3	155
Office buildings and warehouses	10	8	7	7	7	5	5	4	4	2	2	1	62
Stores, restaurants, and garages	16	13	13	11	10	8	6	5	4	3	2	2	90
Other nonresidential buildings.....	19	16	14	14	12	12	9	9	9	8	6	6	134
Religious.....	5	4	3	3	3	3	2	2	2	2	1	1	31
Educational.....	3	3	3	3	2	2	2	2	1	1	1	1	24
Hospital and institutional.....	4	3	3	3	3	3	2	2	2	2	1	1	29
Social and recreational.....	5	4	3	3	3	3	2	2	2	1	1	1	30
Miscellaneous.....	2	2	2	2	1	1	1	1	2	2	2	2	20
Farm construction.....	19	19	20	21	23	26	26	26	24	21	18	17	260
Operators' dwellings.....	11	10	11	11	12	13	13	13	12	11	9	9	135
Service buildings.....	8	9	9	10	11	13	13	13	12	10	9	8	125
Public utilities.....	62	60	66	69	68	70	72	73	68	65	61	52	786
Railroad.....	14	13	15	16	17	18	18	19	18	17	16	16	197
Telephone and telegraph.....	15	15	16	16	14	14	15	14	11	10	9	6	155
Other public utilities.....	33	32	35	37	37	38	39	40	39	38	36	30	434
All other private.....	1	2	2	2	2	1	2	2	2	1	1	1	19
PUBLIC CONSTRUCTION.....	475	491	698	749	840	975	1,271	1,209	1,167	1,087	946	752	10,660
Residential buildings.....	27	25	28	28	33	36	45	62	65	70	62	64	545
Nonresidential buildings.....	177	199	230	268	303	341	380	383	407	372	354	271	3,685
Industrial.....	153	178	204	242	277	316	356	362	388	357	342	262	3,437
Educational.....	14	13	14	15	13	13	12	10	9	7	5	3	128
Hospital and institutional.....	2	2	3	3	4	4	4	4	3	2	2	2	35
Administrative and service.....	6	5	6	6	6	5	5	4	4	3	3	3	56
Other nonresidential buildings.....	2	1	3	2	3	3	3	3	3	3	2	1	29
Military facilities.....	170	182	342	336	370	453	699	619	561	514	430	340	5,016
Highways.....	40	37	42	58	73	78	80	81	75	75	56	39	734
Sewer and water systems.....	14	12	14	16	18	18	17	16	13	13	9	9	169
Sewer.....	6	4	6	8	8	8	8	8	6	6	4	4	76
Water.....	8	8	8	8	10	10	9	8	7	7	5	5	93
Public service enterprises.....	7	5	8	8	8	8	8	8	8	7	5	5	85
Conservation and development.....	35	27	29	30	30	35	35	33	30	29	24	20	357
All other public.....	5	4	5	5	5	6	7	7	8	7	6	4	69
	1943												
TOTAL NEW CONSTRUCTION.....	821	755	773	759	772	755	752	722	648	588	504	452	8,301
PRIVATE CONSTRUCTION.....	147	133	130	144	161	176	178	191	190	183	174	172	1,979
Residential buildings (nonfarm).....	62	51	50	60	73	81	84	87	89	86	84	78	885
New dwelling units.....	54	43	41	48	58	66	67	69	69	67	66	62	710
Additions and alterations.....	7	7	8	11	14	14	15	16	18	18	17	15	160
Nonhousekeeping.....	1	1	1	1	1	1	2	2	2	1	1	1	15
Nonresidential buildings.....	25	21	15	15	14	17	15	21	21	24	22	23	233
Industrial.....	17	14	11	10	10	10	11	13	14	16	15	15	156
Commercial.....	2	2	2	2	2	3	3	4	3	3	4	3	33
Office buildings and warehouses	1	1	1	1	1	1	1	2	1	1	2	1	14
Stores, restaurants, and garages	1	1	1	1	1	2	2	2	2	2	2	2	19
Other nonresidential buildings.....	6	5	2	3	2	4	1	4	4	5	3	5	44
Religious.....	1	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	6
Educational.....	1	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	6
Hospital and institutional.....	1	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	7
Social and recreational.....	1	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	7
Miscellaneous.....	2	1	1	1	1	1	1	1	1	1	1	1	14
Farm construction.....	16	18	20	23	26	29	30	31	29	24	20	18	234
Operators' dwellings.....	7	8	9	10	11	13	13	13	12	10	8	7	121
Service buildings.....	9	10	11	13	15	16	17	18	17	14	12	11	163

<sup>1</sup>Less than \$500,000.

TABLE 5.—NEW CONSTRUCTION, MONTHLY, 1939-56--Continued  
[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1943--Continued													
PRIVATE--Continued													
Public utilities.....	43	42	44	45	47	48	48	52	51	49	48	53	570
Railroad.....	15	15	16	16	17	17	17	18	18	19	18	25	211
Telephone and telegraph.....	6	5	6	5	5	5	4	5	5	5	5	5	61
Other public utilities.....	22	22	22	24	25	26	27	29	28	25	25	23	298
All other private.....	1	1	1	1	1	1	1	(1)	(1)	(1)	(1)	(1)	7
PUBLIC CONSTRUCTION.....	674	622	643	615	611	579	574	531	458	405	330	280	6,322
Residential buildings.....	52	50	70	72	88	78	79	63	57	48	44	38	739
Nonresidential buildings.....	238	230	218	193	174	169	171	150	134	118	109	106	2,010
Industrial.....	230	223	208	182	160	153	153	132	120	107	101	101	1,870
Educational.....	4	3	5	6	7	8	9	8	5	4	2	2	63
Hospital and institutional.....	2	2	3	3	4	4	5	5	5	4	4	3	44
Administrative and service.....	1	1	1	1	2	2	2	2	2	1	(1)	(1)	15
Other nonresidential buildings.....	1	1	1	1	1	2	2	3	2	2	2	(1)	18
Military facilities.....	321	287	285	271	254	224	211	206	160	147	105	79	2,550
Highways.....	22	22	24	33	39	46	51	52	54	44	33	26	446
Sewer and water systems.....	8	7	8	8	9	10	11	11	9	9	9	8	107
Sewer.....	3	2	3	3	3	4	4	4	3	3	3	2	37
Water.....	5	5	5	5	6	6	7	7	6	6	6	6	70
Public service enterprises.....	5	2	4	4	5	6	6	5	4	3	3	2	49
Conservation and development.....	21	18	24	24	27	29	30	30	26	22	19	15	285
All other public.....	7	6	10	10	15	17	15	14	14	14	8	6	136
1944													
TOTAL NEW CONSTRUCTION.....	442	422	410	432	455	465	478	484	458	436	405	372	5,259
PRIVATE CONSTRUCTION.....	156	154	161	171	187	201	205	209	199	187	181	175	2,186
Residential buildings (nonfarm).....	71	66	64	67	70	75	75	74	69	64	62	58	815
New dwelling units.....	57	52	50	51	51	52	51	49	45	41	37	34	570
Additions and alterations.....	13	13	13	15	17	21	22	22	21	20	22	21	220
Nonhousekeeping.....	1	1	1	1	2	2	2	3	3	3	3	3	25
Nonresidential buildings.....	22	22	23	23	27	32	32	33	32	32	35	38	351
Industrial.....	15	14	14	15	17	18	18	18	18	18	20	23	208
Commercial.....	2	3	3	3	4	5	6	6	5	6	7	6	56
Office buildings and warehouses	1	1	1	1	1	2	2	2	1	2	2	1	17
Stores, restaurants, and garages	1	2	2	2	3	3	4	4	4	4	5	5	39
Other nonresidential buildings.....	5	5	6	5	6	9	8	9	9	8	8	9	87
Religious.....	(1)	1	1	1	1	1	1	1	1	1	1	1	11
Educational.....	(1)	(1)	1	(1)	1	1	1	1	1	1	1	2	11
Hospital and institutional.....	1	2	2	2	2	3	3	2	2	2	2	3	26
Social and recreational.....	1	1	1	1	1	2	1	2	2	2	2	1	17
Miscellaneous.....	2	1	1	1	1	2	2	3	3	2	2	2	22
Farm construction.....	18	19	20	23	26	29	30	30	28	23	20	17	283
Operators' dwellings.....	7	7	8	9	10	11	11	11	11	9	8	6	108
Service buildings.....	11	12	12	14	16	18	19	19	17	14	12	11	175
Public utilities.....	45	47	53	57	63	64	66	70	69	67	63	61	725
Railroad.....	17	17	20	20	22	22	22	23	22	21	20	21	247
Telephone and telegraph.....	5	5	5	6	7	7	7	8	8	9	8	8	83
Other public utilities.....	23	25	28	31	34	35	37	39	39	37	35	32	395
All other private.....	(1)	(1)	1	1	1	1	2	2	1	1	1	1	12
PUBLIC CONSTRUCTION.....	286	268	249	261	268	264	273	275	259	249	224	197	3,073
Residential buildings.....	33	27	23	22	21	19	17	14	11	9	8	7	211
Nonresidential buildings.....	122	120	121	122	118	112	109	113	110	113	103	98	1,361
Industrial.....	115	112	113	112	108	102	97	100	95	99	90	87	1,230
Educational.....	2	3	3	3	2	2	4	4	5	5	4	4	41
Hospital and institutional.....	3	3	3	4	5	5	5	6	7	6	6	5	58
Administrative and service.....	1	1	1	1	1	1	1	1	1	1	(1)	(1)	11
Other nonresidential buildings.....	1	1	1	2	2	2	2	2	2	2	2	2	21
Military facilities.....	81	71	60	67	74	70	79	81	72	65	64	53	837
Highways.....	23	23	21	26	30	37	40	39	36	27	20	20	362
Sewer and water systems.....	7	6	6	6	6	6	7	7	8	8	6	6	79
Sewer.....	2	2	2	2	2	2	2	2	2	3	2	2	26
Water.....	5	4	4	4	4	4	5	5	5	5	4	4	53
Public service enterprises.....	3	3	3	3	5	5	5	5	4	4	3	3	46
Conservation and development.....	16	16	13	13	13	14	15	14	14	13	12	10	163
All other public.....	1	2	2	2	1	1	1	1	1	1	(1)	(1)	14

<sup>1</sup>Less than \$500,000.



Table 5.—NEW CONSTRUCTION, MONTHLY, 1939-56—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1945													
TOTAL NEW CONSTRUCTION.....	360	355	393	422	473	499	528	545	532	559	570	573	5,800
PRIVATE CONSTRUCTION.....	159	157	175	194	230	260	298	320	349	383	423	463	3,411
Residential buildings (nonfarm).....	52	46	49	60	78	91	115	124	137	155	176	193	1,276
New dwelling units.....	28	24	24	29	40	50	61	68	77	89	106	124	720
Additions and alterations.....	21	19	21	27	34	37	51	53	57	63	67	66	516
Nonhousekeeping.....	3	3	4	4	4	4	3	3	3	3	3	3	40
Nonresidential buildings.....	42	46	53	57	65	74	80	87	98	114	139	165	1,020
Industrial.....	28	31	35	39	44	50	53	58	63	70	80	91	642
Commercial.....	6	6	8	8	10	12	14	15	18	24	35	47	208
Office buildings and warehouses	2	2	3	3	3	4	5	5	6	6	8	9	56
Stores, restaurants, and garages	4	4	5	5	7	8	9	10	12	18	27	38	147
Other nonresidential buildings.....	8	9	10	10	11	12	13	14	17	20	24	27	175
Religious.....	1	1	1	1	2	2	2	2	3	3	4	4	26
Educational.....	1	2	2	2	2	2	2	3	3	3	4	4	31
Hospital and institutional.....	2	2	3	3	3	3	3	3	3	4	4	4	37
Social and recreational.....	2	1	1	1	1	2	2	2	3	3	4	5	27
Miscellaneous.....	2	3	3	3	3	3	4	4	5	7	8	9	54
Farm construction.....	17	17	17	18	21	24	28	30	28	25	22	20	267
Operators' dwellings.....	7	7	6	7	7	8	11	11	11	10	8	7	100
Service buildings.....	10	10	11	11	14	16	17	19	17	15	14	13	167
Public utilities.....	48	48	55	58	65	70	73	76	83	86	83	82	827
Railroad.....	16	16	19	19	20	21	23	23	27	26	25	29	264
Telephone and telegraph.....	8	7	8	8	9	9	8	9	10	12	14	15	117
Other public utilities.....	24	25	28	31	36	40	42	44	46	48	44	38	446
All other private.....	(1)	(1)	1	1	1	1	2	3	3	3	3	3	21
PUBLIC CONSTRUCTION.....	201	198	218	228	243	239	230	225	183	176	147	110	2,398
Residential buildings.....	8	8	8	9	10	10	8	8	3	4	2	2	80
Nonresidential buildings.....	97	94	103	109	108	97	87	78	55	45	36	28	987
Industrial.....	87	86	91	95	94	81	70	60	37	25	17	12	755
Educational.....	3	3	4	4	4	4	5	6	6	7	7	6	59
Hospital and institutional.....	5	4	6	7	7	8	8	8	8	9	8	7	85
Administrative and service.....	1	1	1	1	1	1	1	1	2	2	2	1	15
Other nonresidential buildings.....	1	(1)	1	2	2	3	3	3	2	2	2	2	23
Military facilities.....	60	62	67	66	72	71	67	65	50	50	38	22	690
Highways.....	18	16	21	25	32	38	42	45	46	45	40	30	398
Sewer and water systems.....	6	6	6	6	6	6	8	10	10	12	11	10	97
Sewer.....	2	2	2	2	2	2	3	4	4	5	5	4	37
Water.....	4	4	4	4	4	4	5	6	6	7	6	6	60
Public service enterprises.....	3	3	3	3	4	6	6	6	6	6	5	4	55
Conservation and development.....	9	8	9	9	10	10	11	12	12	13	14	13	130
All other public.....	(1)	1	1	1	1	1	1	1	1	1	1	1	11
1946													
TOTAL NEW CONSTRUCTION.....	593	624	730	862	1,004	1,134	1,261	1,343	1,372	1,367	1,287	1,160	12,737
PRIVATE CONSTRUCTION.....	493	536	619	729	842	943	1,024	1,076	1,087	1,062	1,017	947	10,375
Residential buildings (nonfarm).....	205	223	265	323	383	436	477	500	511	498	485	446	4,752
New dwelling units.....	137	142	167	205	249	294	336	360	370	360	348	332	3,300
Additions and alterations.....	63	75	90	108	122	128	126	124	125	123	122	101	1,307
Nonhousekeeping.....	5	6	8	10	12	14	15	16	16	15	15	13	145
Nonresidential buildings.....	190	213	232	257	281	303	315	318	315	315	307	295	3,341
Industrial.....	100	108	113	119	128	138	149	159	167	171	171	166	1,686
Commercial.....	60	72	83	99	111	118	117	109	98	94	89	82	1,132
Office buildings and warehouses	12	15	18	21	23	27	31	36	37	39	38	34	331
Stores, restaurants, and garages	48	57	65	78	88	91	86	73	61	55	51	48	801
Other nonresidential buildings.....	30	33	36	39	42	47	49	50	50	50	47	47	520
Religious.....	4	4	5	5	6	6	7	7	7	8	8	9	78
Educational.....	6	7	8	9	10	11	11	12	12	13	12	12	123
Hospital and institutional.....	4	5	5	6	6	7	8	8	9	9	9	9	86
Social and recreational.....	5	6	7	9	11	14	14	14	13	12	11	9	125
Miscellaneous.....	11	11	11	10	9	9	9	9	9	8	7	8	111
Farm construction.....	22	25	32	45	64	82	99	115	115	98	83	76	854
Operators' dwellings.....	10	12	15	22	31	39	47	55	55	47	40	36	408
Service buildings.....	12	13	17	23	33	43	52	60	60	51	43	40	447

<sup>1</sup>Less than \$500,000.



TABLE 5.—NEW CONSTRUCTION, MONTHLY, 1939-56—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1946—Continued													
PRIVATE—Continued													
Public utilities.....	73	72	87	100	110	118	128	137	141	146	137	125	1,374
Railroad.....	18	17	19	21	21	21	22	22	23	24	26	24	258
Telephone and telegraph.....	17	17	21	24	25	24	26	28	30	34	30	29	305
Other public utilities.....	38	38	47	55	64	73	80	87	88	88	81	72	811
All other private.....	3	3	3	4	4	4	5	6	5	5	5	5	52
PUBLIC CONSTRUCTION.....	100	88	111	133	162	191	237	267	285	305	270	213	2,362
Residential buildings.....	2	4	9	12	21	26	32	37	44	60	74	53	374
Nonresidential buildings.....	31	25	25	24	26	27	31	34	38	35	31	27	354
Industrial.....	15	11	9	8	8	7	8	9	11	11	9	7	113
Educational.....	6	5	6	6	7	8	10	11	12	11	10	9	101
Hospital and institutional.....	7	6	7	7	8	8	8	8	7	6	5	5	85
Administrative and service.....	1	1	1	1	1	2	2	2	2	1	1	1	16
Other nonresidential buildings.....	2	2	2	2	2	2	3	4	5	5	5	5	39
Military facilities.....	18	13	13	15	14	14	14	18	16	20	17	16	188
Highways.....	24	24	36	49	63	79	103	113	117	123	94	70	896
Sewer and water systems.....	9	7	9	10	12	16	20	23	26	24	20	18	194
Sewer.....	4	3	4	4	5	7	10	12	14	13	11	10	97
Water.....	5	4	5	6	7	9	10	11	12	11	9	8	97
Public service enterprises.....	4	3	5	6	6	8	9	10	10	10	7	6	84
Conservation and development.....	11	12	13	16	19	20	27	30	32	32	26	22	260
All other public.....	1	0	1	1	1	1	1	2	2	1	1	1	13
1947													
TOTAL NEW CONSTRUCTION.....	1,074	1,043	1,096	1,221	1,358	1,523	1,655	1,762	1,828	1,885	1,821	1,649	17,915
PRIVATE CONSTRUCTION.....	896	865	898	979	1,086	1,211	1,316	1,397	1,447	1,492	1,494	1,400	14,481
Residential buildings (nonfarm).....	417	398	415	471	541	607	674	731	774	834	865	808	7,535
New dwelling units.....	310	290	295	322	370	421	472	518	559	611	651	631	5,450
Additions and alterations.....	94	96	109	139	160	176	192	203	205	213	205	168	1,960
Nonhousekeeping.....	13	12	11	10	11	10	10	10	10	10	9	9	125
Nonresidential buildings.....	275	259	241	239	241	250	256	261	268	278	290	284	3,142
Industrial.....	159	152	145	142	141	140	139	139	138	137	136	134	1,702
Commercial.....	71	63	54	55	59	67	69	71	76	84	94	93	856
Office buildings and warehouses.....	29	25	19	19	18	18	17	17	15	16	20	24	237
Stores, restaurants, and garages.....	42	38	35	36	41	49	52	54	61	68	74	69	619
Other nonresidential buildings.....	45	44	42	42	41	43	48	51	54	57	60	57	584
Religious.....	8	8	8	8	8	9	10	12	13	14	14	14	126
Educational.....	12	12	11	12	12	13	15	16	17	18	19	17	174
Hospital and institutional.....	9	9	10	10	9	9	9	9	9	9	9	9	110
Social and recreational.....	8	7	6	6	7	7	8	9	9	10	11	11	99
Miscellaneous.....	8	8	7	6	5	5	6	5	6	6	7	6	75
Farm construction.....	75	81	91	105	125	140	151	157	147	124	106	95	1,397
Operators' dwellings.....	34	38	44	51	61	69	75	78	73	61	52	47	683
Service buildings.....	41	43	47	54	64	71	76	79	74	63	54	48	714
Public utilities.....	125	123	146	159	174	207	227	241	250	250	227	209	2,338
Railroad.....	21	18	20	22	23	27	31	33	33	32	30	28	318
Telephone and telegraph.....	32	33	38	25	31	40	44	46	54	59	53	55	510
Other public utilities.....	72	72	88	112	120	140	152	162	163	159	144	126	1,510
All other private.....	4	4	5	5	5	7	8	7	8	6	6	4	69
PUBLIC CONSTRUCTION.....	178	178	198	242	272	312	339	365	381	393	327	249	3,434
Residential buildings.....	40	40	26	17	9	9	9	11	8	11	10	10	200
Nonresidential buildings.....	27	29	37	46	51	51	55	57	61	62	59	64	599
Industrial.....	6	5	7	8	10	8	10	8	9	9	7	9	96
Educational.....	10	12	17	23	25	26	28	28	28	28	30	34	287
Hospital and institutional.....	5	5	5	6	6	7	8	8	9	9	9	8	85
Administrative and service.....	1	1	2	2	3	3	3	4	4	5	4	4	36
Other nonresidential buildings.....	5	6	6	7	7	7	8	9	11	11	9	9	95
Military facilities.....	13	12	12	15	15	15	19	22	22	23	19	17	204
Highways.....	48	47	63	93	118	150	161	174	185	191	145	76	1,451
Sewer and water.....	17	17	22	28	30	32	34	35	36	36	34	30	351
Sewer.....	9	9	12	15	16	17	18	19	19	19	18	17	188
Water.....	8	8	10	13	14	15	16	16	17	17	16	13	163
Public service enterprises.....	7	7	11	11	13	13	14	15	15	15	11	9	141
Conservation and development.....	21	22	23	27	31	37	41	45	47	48	44	38	424
All other public.....	5	4	4	5	5	5	6	6	7	7	5	5	64

TABLE 5.—NEW CONSTRUCTION, MONTHLY, 1939-56—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1948													
TOTAL NEW CONSTRUCTION.....	1,466	1,330	1,508	1,722	1,980	2,184	2,295	2,366	2,328	2,220	2,025	1,798	23,222
PRIVATE CONSTRUCTION.....	1,235	1,131	1,256	1,409	1,585	1,717	1,781	1,805	1,778	1,691	1,582	1,425	18,396
Residential buildings (nonfarm).....	680	578	667	786	910	976	1,008	1,008	982	926	851	755	10,122
New dwelling units.....	520	430	510	572	648	706	732	745	732	695	639	571	7,500
Additions and alterations.....	152	139	147	203	248	256	256	248	235	216	197	170	2,467
Nonhousekeeping.....	8	9	10	11	14	14	15	15	15	15	15	14	155
Nonresidential buildings.....	271	266	267	265	279	305	324	333	338	332	330	311	3,621
Industrial.....	130	125	120	116	111	110	110	113	116	116	116	114	1,397
Commercial.....	84	84	89	89	99	116	127	125	122	113	109	96	1,253
Office buildings and warehouses.	23	23	23	25	27	28	31	33	35	35	35	34	352
Stores, restaurants, and garages.	61	61	66	64	72	88	96	92	87	78	74	62	901
Other nonresidential buildings.....	57	57	58	60	69	79	87	95	100	103	105	101	971
Religious.....	14	13	13	14	17	19	22	25	27	28	30	29	251
Educational.....	17	16	16	16	17	20	22	25	26	27	26	25	253
Hospital and institutional.....	9	9	10	10	11	11	11	11	11	11	11	11	126
Social and recreational.....	11	12	13	14	16	19	21	23	24	24	24	23	224
Miscellaneous.....	6	7	6	6	8	10	11	11	12	13	14	13	117
Farm construction.....	96	100	109	122	142	155	164	168	155	129	109	95	1,544
Operators' dwellings.....	47	49	53	59	68	74	78	80	74	61	51	44	738
Service buildings.....	49	51	56	63	74	81	86	88	81	68	58	51	806
Public utilities.....	185	182	207	230	247	273	283	291	298	299	288	260	3,043
Railroad.....	25	22	24	25	34	33	34	36	38	39	36	33	379
Telephone and telegraph.....	48	49	60	63	62	65	65	63	61	61	60	56	713
Other public utilities.....	112	111	123	142	151	175	184	192	199	199	192	171	1,961
All other private.....	3	5	6	6	7	8	7	5	5	5	4	4	65
PUBLIC CONSTRUCTION.....	231	199	252	313	395	467	514	561	550	529	443	373	4,827
Residential buildings.....	12	9	10	12	11	12	13	17	15	16	14	15	156
Nonresidential buildings.....	65	61	74	85	96	106	119	133	138	144	141	139	1,301
Industrial.....	8	6	8	10	15	19	20	26	23	21	19	21	196
Educational.....	36	34	39	42	46	48	54	58	62	65	68	66	618
Hospital and institutional.....	7	8	10	13	15	17	20	23	26	28	28	28	223
Administrative and service.....	5	5	6	7	7	7	8	8	9	11	9	9	91
Other nonresidential buildings.....	9	8	11	13	13	15	17	18	18	19	17	15	173
Military facilities.....	14	12	14	14	14	13	14	15	15	13	11	9	158
Highways.....	61	47	64	99	155	202	230	244	224	209	146	93	1,774
Sewer and water systems.....	30	28	35	42	46	48	51	53	54	52	50	46	535
Sewer.....	17	16	20	24	26	27	28	29	30	29	28	26	300
Water.....	13	12	15	18	20	21	23	24	24	23	22	20	235
Public service enterprises.....	8	6	9	11	14	16	18	21	20	18	13	10	164
Conservation and development.....	36	32	40	45	54	63	63	70	77	71	62	57	670
All other public.....	5	4	6	5	5	7	6	8	7	6	6	4	69
1949													
TOTAL NEW CONSTRUCTION.....	1,623	1,497	1,600	1,756	2,007	2,183	2,271	2,341	2,367	2,331	2,194	1,993	24,163
PRIVATE CONSTRUCTION.....	1,266	1,169	1,219	1,306	1,451	1,572	1,634	1,658	1,664	1,658	1,628	1,534	17,759
Residential buildings (nonfarm).....	650	564	590	659	764	847	891	909	940	961	960	907	9,642
New dwelling units.....	492	420	435	465	544	614	658	688	716	742	753	730	7,257
Additions and alterations.....	144	131	141	179	203	216	216	205	208	203	192	162	2,200
Nonhousekeeping.....	14	13	14	15	17	17	17	16	16	16	15	15	186
Nonresidential buildings.....	290	274	266	257	262	272	273	271	262	264	270	267	3,228
Industrial.....	110	104	96	89	81	76	72	71	69	68	68	68	972
Commercial.....	85	80	81	78	86	94	93	89	83	84	88	86	1,027
Office buildings and warehouses.	32	29	28	25	26	26	26	27	23	24	27	28	321
Stores, restaurants, and garages.	53	51	53	53	60	68	67	62	60	60	61	58	706
Other nonresidential buildings.....	95	90	89	90	95	102	108	111	110	112	114	113	1,229
Religious.....	28	26	26	26	28	30	31	33	33	33	34	32	360
Educational.....	23	22	21	21	20	21	23	23	23	24	24	24	266
Hospital and institutional.....	11	11	12	13	14	16	17	19	20	22	23	24	202
Social and recreational.....	21	21	20	20	22	23	24	24	23	22	21	21	262
Miscellaneous.....	12	10	10	10	11	12	13	12	11	11	12	12	136
Farm construction.....	95	97	104	115	133	145	154	159	149	127	110	100	1,488
Operators' dwellings.....	44	45	48	54	63	69	73	75	70	59	50	45	696
Service buildings.....	51	52	56	61	70	76	81	84	79	68	60	55	792

TABLE 5.—NEW CONSTRUCTION, MONTHLY, 1949-56—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1949—Continued													
PRIVATE—Continued													
Public utilities.....	227	229	254	269	286	300	308	311	306	299	281	253	3,323
Railroad.....	26	25	28	32	33	32	33	32	30	29	29	23	352
Telephone and telegraph.....	42	47	54	48	49	50	43	43	40	40	40	37	533
Other public utilities.....	159	157	172	189	204	218	232	236	236	230	212	193	2,438
All other private.....	4	5	5	6	6	8	8	8	7	7	7	7	78
PUBLIC CONSTRUCTION.....	357	328	381	450	556	611	637	683	703	673	566	459	6,404
Residential buildings.....	16	17	22	26	25	33	32	37	40	41	36	34	359
Nonresidential buildings.....	139	135	153	158	167	173	176	188	220	217	182	160	2,068
Industrial.....	21	20	21	17	17	16	12	11	11	11	11	9	177
Educational.....	66	65	68	72	76	80	83	87	90	85	82	80	934
Hospital and institutional.....	28	27	34	36	39	42	44	47	48	48	44	40	477
Administrative and service.....	9	8	12	13	13	13	13	14	16	15	14	13	153
Other nonresidential buildings.....	15	15	18	20	22	22	24	29	55	58	31	18	327
Military facilities.....	8	8	8	9	9	11	12	15	15	16	14	12	137
Highways.....	89	68	84	128	206	236	255	276	255	233	184	117	2,131
Sewer and water systems.....	46	45	49	51	53	53	54	55	57	56	51	49	619
Sewer.....	26	26	28	29	30	30	30	31	32	33	30	29	354
Water.....	20	19	21	22	23	23	24	24	25	23	21	20	265
Public service enterprises.....	9	9	10	12	17	17	21	21	22	20	15	11	184
Conservation and development.....	47	44	51	62	75	83	82	85	87	85	79	72	852
All other public.....	3	2	4	4	4	5	5	6	7	5	5	4	54
1950													
TOTAL NEW CONSTRUCTION.....	1,838	1,741	1,905	2,161	2,459	2,767	2,916	3,027	3,059	2,958	2,735	2,389	29,955
PRIVATE CONSTRUCTION.....	1,418	1,394	1,464	1,650	1,888	2,109	2,239	2,312	2,317	2,223	2,074	1,876	22,954
Residential buildings (nonfarm).....	829	799	845	998	1,172	1,331	1,424	1,477	1,479	1,387	1,253	1,106	14,100
New dwelling units.....	682	652	687	799	941	1,072	1,161	1,212	1,211	1,145	1,040	923	11,525
Additions and alterations.....	136	136	147	187	218	245	248	248	251	224	195	165	2,400
Nonhousekeeping.....	11	11	11	12	13	14	15	17	17	18	18	18	175
Nonresidential buildings.....	257	252	249	249	274	305	324	333	354	382	403	395	3,777
Industrial.....	69	70	69	70	73	78	84	91	101	112	120	125	1,062
Commercial.....	79	77	77	77	92	110	116	114	121	136	149	140	1,288
Office buildings and warehouses	28	27	25	25	26	28	31	35	39	43	47	48	402
Stores, restaurants, and garages	51	50	52	52	66	82	85	79	82	93	102	92	886
Other nonresidential buildings.....	109	105	103	102	109	117	124	128	132	134	134	130	1,427
Religious.....	31	29	28	28	30	33	35	37	39	40	40	39	409
Educational.....	23	22	21	20	21	22	24	26	28	29	29	29	294
Hospital and institutional.....	25	26	27	27	29	30	30	30	30	30	30	30	344
Social and recreational.....	29	18	17	17	19	21	23	24	23	23	22	20	247
Miscellaneous.....	10	10	10	10	10	11	12	11	12	12	13	12	133
Farm construction.....	100	104	114	128	149	163	174	178	185	138	118	104	1,635
Operators' dwellings.....	45	47	52	59	70	77	83	85	78	64	55	48	763
Service buildings.....	55	57	62	69	79	86	91	89	87	74	63	56	872
Public utilities.....	223	220	247	264	280	297	306	313	312	309	293	266	3,330
Railroad.....	23	16	22	24	26	26	28	29	29	32	32	28	315
Telephone and telegraph.....	29	31	38	34	39	39	39	40	39	39	38	35	440
Other public utilities.....	171	173	187	206	215	232	239	244	244	238	223	203	2,575
All other private.....	9	9	9	11	13	13	11	11	7	7	7	5	112
PUBLIC CONSTRUCTION.....	420	357	441	511	571	658	677	715	742	735	661	513	7,001
Residential buildings.....	35	28	29	28	27	28	24	27	26	30	31	30	345
Nonresidential buildings.....	156	153	169	182	200	198	200	210	227	244	227	218	2,384
Industrial.....	7	7	12	13	17	17	18	19	23	31	29	31	224
Educational.....	80	79	83	85	88	90	93	98	104	112	111	110	1,133
Hospital and institutional.....	38	37	39	41	43	42	43	45	44	43	42	39	496
Administrative and service.....	13	12	14	16	17	19	21	22	22	21	19	17	213
Other nonresidential buildings.....	18	18	21	27	35	30	25	26	34	37	26	21	318
Military facilities.....	10	8	8	9	8	9	10	16	21	28	26	24	177
Highways.....	97	60	106	149	178	253	273	286	292	260	218	100	2,272
Sewer and water systems.....	49	46	49	51	53	55	57	60	61	61	60	57	659
Sewer.....	29	28	29	30	30	31	32	34	35	36	35	34	383
Water.....	20	18	20	21	23	24	25	26	26	25	25	23	276
Public service enterprises.....	10	7	10	12	13	15	15	17	17	18	15	11	160
Conservation and development.....	59	51	64	75	86	93	92	93	91	89	80	69	942
All other public.....	4	4	6	5	6	7	6	6	5	5	4	4	62

Table 5.--NEW CONSTRUCTION, MONTHLY, 1939-56--Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	1951												
TOTAL NEW CONSTRUCTION.....	2,248	2,135	2,368	2,576	2,794	2,979	3,063	3,130	3,110	3,045	2,794	2,502	32,739
PRIVATE CONSTRUCTION.....	1,724	1,665	1,759	1,862	1,975	2,087	2,131	2,139	2,127	2,077	1,974	1,800	23,320
Residential buildings (nonfarm).....	994	927	963	1,015	1,053	1,103	1,117	1,109	1,113	1,115	1,070	950	12,529
New dwelling units.....	830	750	785	807	821	853	857	847	849	858	832	760	9,849
Additions and alterations.....	147	160	162	192	216	234	243	245	248	243	224	176	2,490
Nonhousekeeping.....	17	17	16	16	16	16	17	17	16	14	14	14	190
Nonresidential buildings.....	378	384	399	410	440	465	471	465	460	440	425	415	5,152
Industrial.....	129	135	143	152	164	180	195	204	210	205	200	200	2,117
Commercial.....	122	121	127	126	131	131	121	108	101	95	96	92	1,371
Office buildings and warehouses	47	46	45	46	48	48	48	48	45	41	41	41	544
Stores, restaurants, and garages	75	75	82	80	83	83	73	60	56	54	55	51	827
Other nonresidential buildings.....	127	128	129	132	145	154	155	153	149	140	129	123	1,664
Religious.....	37	35	35	35	38	41	42	43	42	38	34	32	452
Educational.....	28	27	26	26	27	29	30	32	32	31	29	28	345
Hospital and institutional.....	30	31	32	34	37	38	39	38	37	36	34	33	419
Social and recreational.....	19	18	16	15	15	15	14	13	12	10	9	8	164
Miscellaneous.....	13	17	20	22	28	31	30	27	26	25	23	22	294
Farm construction.....	105	111	123	141	166	185	199	205	192	161	137	121	1,846
Operators' dwellings.....	49	52	57	66	78	86	93	96	90	75	64	57	863
Service buildings.....	56	59	66	75	88	99	106	109	102	86	73	64	983
Public utilities.....	242	238	269	291	312	329	339	354	356	355	336	308	3,729
Railroad.....	26	22	28	28	33	36	35	38	35	40	41	37	396
Telephone and telegraph.....	36	35	41	39	41	42	41	43	43	44	42	40	487
Other public utilities.....	180	181	200	224	238	251	263	273	278	271	253	231	2,843
All other private.....	5	5	5	5	4	5	5	6	6	6	6	6	64
PUBLIC CONSTRUCTION.....	524	470	604	714	819	892	932	991	983	968	820	702	9,419
Residential buildings.....	29	30	36	42	45	47	47	56	63	66	68	66	595
Nonresidential buildings.....	229	220	259	287	300	311	319	329	325	319	304	295	3,497
Industrial.....	38	36	55	71	78	85	94	106	106	106	100	99	974
Educational.....	110	110	118	123	126	128	132	133	135	134	133	131	1,513
Hospital and institutional.....	40	38	45	47	51	50	47	47	44	43	39	37	528
Administrative and service.....	19	16	19	21	21	22	21	19	18	17	16	14	223
Other nonresidential buildings.....	22	20	22	25	24	26	25	24	22	19	16	14	259
Military facilities.....	30	34	52	66	68	74	83	98	96	103	100	88	887
Highways.....	92	63	110	159	234	276	302	336	325	311	196	114	2,518
Sewer and water systems.....	62	59	64	67	69	72	71	68	66	64	59	54	775
Sewer.....	34	33	35	37	38	39	38	37	36	35	33	30	425
Water.....	28	26	29	30	31	33	33	31	30	29	26	24	350
Public service enterprises.....	11	9	13	13	17	19	19	20	20	18	13	12	184
Conservation and development.....	67	52	66	75	81	87	86	84	83	83	77	71	912
All other public.....	4	3	4	5	5	6	5	5	5	4	3	2	51
	1952												
TOTAL NEW CONSTRUCTION.....	2,289	2,222	2,490	2,711	2,949	3,143	3,238	3,314	3,352	3,290	3,045	2,707	34,750
PRIVATE CONSTRUCTION.....	1,628	1,589	1,766	1,861	2,009	2,129	2,191	2,225	2,217	2,192	2,105	1,937	23,849
Residential buildings (nonfarm).....	812	781	927	994	1,092	1,165	1,196	1,212	1,207	1,214	1,176	1,066	12,842
New dwelling units.....	650	600	710	750	815	875	910	930	930	935	915	850	9,870
Additions and alterations.....	149	168	205	232	264	275	269	264	259	261	243	198	2,787
Nonhousekeeping.....	13	13	12	12	13	15	17	18	18	18	18	18	166
Nonresidential buildings.....	423	413	402	390	395	405	414	421	434	441	443	433	5,014
Industrial.....	209	209	202	195	188	183	181	183	190	193	194	193	2,320
Commercial.....	91	82	80	77	86	93	99	98	101	105	113	112	1,137
Office buildings and warehouses	47	43	39	37	38	38	41	43	44	46	49	50	515
Stores, restaurants, and garages	44	39	41	40	48	55	58	55	57	59	64	62	822
Other nonresidential buildings.....	123	122	120	118	121	129	134	140	143	143	136	128	1,557
Religious.....	31	30	29	28	29	31	33	36	38	39	38	37	399
Educational.....	28	27	26	25	26	28	29	31	32	33	33	33	351
Hospital and institutional.....	32	32	32	33	34	35	36	35	34	33	30	28	399
Social and recreational.....	9	9	9	9	9	10	11	12	12	12	11	12	125
Miscellaneous.....	23	24	24	23	23	25	25	26	27	26	23	19	288
Farm construction.....	122	126	138	154	177	192	202	205	188	155	131	115	1,805
Operators' dwellings.....	57	58	64	72	83	90	94	96	88	72	61	54	880
Service buildings.....	65	67	74	82	94	102	108	109	100	83	70	61	1,015



Table 5.--NEW CONSTRUCTION, MONTHLY, 1939-56--Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1952--Continued													
PRIVATE--Continued													
Public utilities.....	265	264	294	317	338	359	370	379	381	375	347	314	4,003
Railroad.....	28	26	30	40	35	40	38	33	39	48	38	43	438
Telephone and telegraph.....	41	43	45	44	49	50	51	50	51	53	48	45	570
Other public utilities.....	196	195	219	233	254	269	281	296	291	274	261	226	2,995
All other private.....	6	5	5	6	7	8	9	8	7	7	8	9	85
PUBLIC CONSTRUCTION.....	661	633	724	850	940	1,014	1,047	1,089	1,135	1,098	940	770	10,901
Residential buildings.....	63	59	55	55	56	53	54	56	54	51	49	49	654
Nonresidential buildings.....	287	276	301	325	340	358	371	391	392	383	366	346	4,136
Industrial.....	93	91	106	122	135	150	161	175	176	170	159	146	1,684
Educational.....	129	127	131	135	136	137	138	140	139	137	136	134	1,619
Hospital and institutional.....	37	35	38	41	41	42	41	43	41	40	38	36	473
Administrative and service.....	13	11	12	11	12	13	15	14	16	16	16	14	163
Other nonresidential buildings.....	15	12	14	16	16	16	16	19	20	20	17	16	197
Military facilities.....	89	84	101	114	119	125	128	134	134	128	121	111	1,388
Highways.....	85	90	123	203	262	308	321	334	376	359	244	115	2,820
Sewer and water systems.....	56	54	60	64	69	71	73	72	71	70	66	64	790
Sewer.....	31	30	33	35	37	38	39	39	39	39	38	37	435
Water.....	25	24	27	29	32	33	34	33	32	31	28	27	355
Public service enterprises.....	12	9	12	13	15	15	15	16	18	17	14	12	168
Conservation and development.....	66	59	69	72	75	80	81	81	85	85	77	70	900
All other public.....	3	2	3	4	4	4	4	5	5	5	3	3	45
1953													
TOTAL NEW CONSTRUCTION.....	2,501	2,428	2,686	2,945	3,134	3,411	3,515	3,530	3,530	3,409	3,184	2,845	37,118
PRIVATE CONSTRUCTION.....	1,752	1,702	1,873	2,053	2,188	2,370	2,405	2,406	2,372	2,322	2,234	2,047	25,724
Residential buildings (nonfarm).....	921	865	986	1,121	1,187	1,306	1,313	1,297	1,265	1,244	1,191	1,081	13,777
New dwelling units.....	735	675	770	850	885	980	990	980	965	950	915	850	10,555
Additions and alterations.....	168	171	197	251	280	293	299	293	275	269	251	208	2,955
Nonhousekeeping.....	18	19	19	20	22	23	24	24	25	25	25	23	267
Nonresidential buildings.....	432	433	430	427	451	479	489	493	506	511	523	507	5,680
Industrial.....	201	204	198	192	191	185	176	174	177	177	177	177	2,229
Commercial.....	109	111	114	114	129	152	165	169	175	179	192	182	1,791
Office buildings and warehouses	51	50	49	50	53	56	60	66	71	75	79	79	739
Stores, restaurants, and garages	58	61	65	64	76	96	105	103	104	104	113	103	1,052
Other nonresidential buildings.....	122	118	118	121	131	142	148	150	153	155	154	148	1,660
Religious.....	35	34	33	33	35	38	40	43	44	46	46	45	472
Educational.....	32	31	30	31	32	34	36	38	40	41	41	40	426
Hospital and institutional.....	27	26	26	26	26	27	27	27	27	26	26	26	317
Social and recreational.....	11	10	10	11	13	14	15	15	15	16	17	16	163
Miscellaneous.....	17	17	19	20	25	29	30	27	27	26	24	21	282
Farm construction.....	114	117	127	140	161	174	182	185	170	140	118	103	1,731
Operators' dwellings.....	53	55	59	65	75	81	85	87	80	66	55	48	809
Service buildings.....	61	62	68	75	86	93	97	98	90	74	63	55	922
Public utilities.....	277	279	322	356	377	398	408	420	422	417	393	347	4,416
Railroad.....	29	27	35	39	36	38	39	39	41	42	41	36	442
Telephone and telegraph.....	46	47	49	53	53	54	55	52	51	56	51	48	615
Other public utilities.....	202	205	238	264	288	306	314	329	330	319	301	263	3,359
All other private.....	8	8	8	9	12	13	13	11	10	9	9	9	120
PUBLIC CONSTRUCTION.....	749	726	813	892	946	1,041	1,110	1,124	1,158	1,087	950	798	11,394
Residential buildings.....	47	48	47	49	50	51	46	44	46	46	43	39	556
Nonresidential buildings.....	334	324	366	370	369	377	373	377	379	375	352	350	4,346
Industrial.....	138	132	165	159	158	162	153	150	147	140	131	136	1,771
Educational.....	131	131	133	138	139	140	145	146	151	156	153	151	1,714
Hospital and institutional.....	34	33	34	35	33	33	30	30	28	27	24	24	365
Administrative and service.....	14	12	15	16	16	17	16	15	16	16	15	13	181
Other nonresidential buildings.....	17	16	19	22	23	25	29	36	37	36	29	26	315
Military facilities.....	107	108	111	111	113	122	122	120	118	101	96	78	1,307
Highways.....	118	116	138	195	240	309	379	393	423	383	290	176	3,160
Sewer and water systems.....	64	62	67	71	73	76	80	82	83	79	75	71	883
Sewer.....	38	37	40	41	42	44	47	48	50	47	44	42	520
Water.....	26	25	27	30	31	32	33	34	33	32	31	29	363
Public service enterprises.....	12	8	11	12	13	13	17	18	19	17	15	12	167
Conservation and development.....	64	57	69	78	80	84	84	81	80	77	72	66	892
All other public.....	3	3	4	6	8	9	9	9	10	9	7	6	83

Table 5.—NEW CONSTRUCTION, MONTHLY, 1939-56—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	1954												
TOTAL NEW CONSTRUCTION.....	2,555	2,460	2,707	2,985	3,331	3,589	3,757	3,885	3,870	3,697	3,511	3,254	39,601
PRIVATE CONSTRUCTION.....	1,806	1,734	1,897	2,087	2,297	2,468	2,578	2,636	2,639	2,598	2,525	2,414	27,679
Residential buildings (nonfarm).....	921	860	981	1,140	1,292	1,383	1,455	1,496	1,505	1,491	1,453	1,402	15,379
New dwelling units.....	730	675	770	860	970	1,050	1,125	1,175	1,195	1,195	1,175	1,150	12,070
Additions and alterations.....	168	163	189	256	296	304	301	293	285	272	256	230	3,013
Nonhousekeeping.....	23	22	22	24	26	29	28	25	24	22	22	22	296
Nonresidential buildings.....	486	474	469	466	490	530	551	556	558	554	564	552	6,250
Industrial.....	179	176	173	168	162	161	158	159	162	170	178	184	2,030
Commercial.....	164	157	154	152	170	192	206	210	210	202	203	192	2,212
Office buildings and warehouses	75	73	70	69	72	76	81	88	88	89	90	87	958
Stores, restaurants, and garages	89	84	84	83	98	116	125	122	122	113	113	105	1,254
Other nonresidential buildings.....	143	141	142	146	158	177	187	187	186	182	183	176	2,008
Religious.....	42	41	40	40	42	47	52	56	58	59	59	57	593
Educational.....	39	38	37	39	41	45	48	50	50	49	48	45	529
Hospital and institutional.....	26	26	27	27	28	28	29	29	30	29	29	29	337
Social and recreational.....	16	16	16	16	17	20	21	22	22	22	21	19	228
Miscellaneous.....	20	20	22	24	30	37	37	30	26	23	26	26	321
Farm construction.....	103	107	116	130	151	166	175	179	164	137	115	102	1,645
Operators' dwellings.....	48	50	54	61	70	78	82	83	77	64	54	48	769
Service buildings.....	55	57	62	69	81	88	93	96	87	73	61	54	876
Public utilities.....	289	286	324	343	355	378	385	393	400	404	381	346	4,284
Railroad.....	27	25	30	32	30	31	30	26	28	38	28	28	353
Telephone and telegraph.....	41	49	59	59	53	59	55	53	58	58	59	52	655
Other public utilities.....	221	212	235	252	272	288	300	314	314	308	294	266	3,276
All other private.....	7	7	7	8	9	11	12	12	12	12	12	12	121
PUBLIC CONSTRUCTION.....	749	726	810	898	1,034	1,121	1,179	1,249	1,231	1,099	986	840	11,922
Residential buildings.....	37	34	34	34	32	26	24	25	23	23	22	22	336
Nonresidential buildings.....	359	353	371	384	394	406	419	435	409	389	366	351	4,636
Industrial.....	146	142	142	138	132	129	130	130	106	105	104	102	1,506
Educational.....	152	153	161	168	177	183	189	195	197	193	185	181	2,134
Hospital and institutional.....	24	24	28	32	34	34	33	36	32	30	28	25	360
Administrative and service.....	13	12	16	19	21	24	27	30	31	29	23	19	264
Other nonresidential buildings.....	24	22	24	27	30	36	40	44	43	32	26	24	372
Military facilities.....	73	68	74	78	78	90	90	97	98	101	95	88	1,030
Highways.....	137	137	176	233	350	410	452	495	511	407	336	226	3,870
Sewer and water systems.....	70	69	76	79	81	85	89	94	91	88	83	77	982
Sewer.....	40	41	44	46	46	49	52	55	53	51	47	44	568
Water.....	30	28	32	33	35	36	37	39	38	37	36	33	414
Public service enterprises.....	12	10	13	14	17	19	20	21	20	16	14	13	189
Conservation and development.....	54	49	57	66	71	74	74	71	70	67	63	57	773
All other public.....	7	6	9	10	11	11	11	11	9	8	7	6	106
	1955												
TOTAL NEW CONSTRUCTION.....	2,962	2,833	3,121	3,480	3,843	4,119	4,249	4,335	4,291	4,155	3,821	3,372	44,581
PRIVATE CONSTRUCTION.....	2,201	2,127	2,337	2,557	2,785	2,984	3,059	3,084	3,067	2,998	2,838	2,583	32,620
Residential buildings (nonfarm).....	1,240	1,162	1,317	1,496	1,652	1,767	1,802	1,785	1,759	1,702	1,597	1,426	18,705
New dwelling units.....	1,030	960	1,085	1,190	1,270	1,380	1,430	1,435	1,410	1,360	1,280	1,160	14,990
Additions and alterations.....	189	181	211	283	355	355	339	317	317	309	285	235	3,376
Nonhousekeeping.....	21	21	21	23	27	32	33	33	32	33	32	31	339
Nonresidential buildings.....	542	548	555	560	590	633	668	685	714	721	715	680	7,611
Industrial.....	186	187	186	184	193	190	199	205	213	219	224	223	2,399
Commercial.....	188	200	215	226	252	279	296	304	322	326	318	292	3,218
Office buildings and warehouses	84	85	89	95	105	110	114	117	121	126	133	131	1,311
Stores, restaurants, and garages	104	115	125	130	147	169	182	187	201	200	185	161	1,907
Other nonresidential buildings.....	168	161	154	150	155	164	173	176	179	176	173	165	1,994
Religious.....	55	53	53	54	58	62	66	68	69	68	66	62	734
Educational.....	42	39	37	36	36	39	41	43	45	45	45	44	492
Hospital and institutional.....	28	28	28	28	30	30	31	31	31	30	29	27	351
Social and recreational.....	18	17	16	17	19	22	23	23	22	21	21	20	239
Miscellaneous.....	25	24	20	15	12	11	12	11	12	12	12	12	178
Farm construction.....	102	106	115	128	148	160	169	172	159	132	111	98	1,600
Operators' dwellings.....	48	50	54	60	69	75	79	81	74	62	52	46	750
Service buildings.....	54	56	61	68	79	85	90	91	85	70	59	52	850



Table 5.—NEW CONSTRUCTION, MONTHLY, 1939-56—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1955—Continued													
PRIVATE—Continued													
Public utilities.....	303	298	336	359	379	408	404	428	423	432	404	369	4,543
Railroad.....	23	22	26	27	33	34	34	35	36	39	35	30	374
Telephone and telegraph.....	52	52	62	62	62	73	65	76	72	76	76	77	806
Other public utilities.....	228	224	248	270	284	301	305	317	315	317	293	262	3,364
All other private.....	14	13	14	14	16	16	16	14	12	11	11	10	161
PUBLIC CONSTRUCTION.....	761	706	784	923	1,058	1,135	1,190	1,251	1,224	1,157	983	789	11,961
Residential buildings.....	22	21	23	22	21	24	20	23	23	23	22	22	266
Nonresidential buildings.....	342	321	347	363	374	383	383	378	372	349	320	286	4,218
Industrial.....	90	77	76	74	71	68	61	51	45	40	38	30	721
Educational.....	182	178	190	202	211	217	220	223	221	212	200	186	2,442
Hospital and institutional.....	25	22	26	27	28	30	31	31	31	27	24	20	322
Administrative and service.....	21	20	26	28	31	31	33	34	33	28	24	22	331
Other nonresidential buildings.....	24	24	29	32	33	37	38	39	42	42	34	28	402
Military facilities.....	81	76	82	96	107	120	125	133	138	138	118	99	1,313
Highways.....	170	161	179	276	375	415	457	508	487	452	345	225	4,050
Sewer and water systems.....	76	70	81	88	96	99	104	105	100	97	89	80	1,085
Sewer.....	44	40	45	50	54	56	60	59	56	54	51	46	615
Water.....	32	30	36	38	42	43	44	46	44	43	38	34	470
Public service enterprises.....	12	9	13	14	16	20	25	28	29	25	23	19	233
Conservation and development.....	51	43	52	56	61	65	67	66	65	64	58	53	701
All other public.....	7	5	7	8	8	9	9	10	10	9	8	5	95
1956													
TOTAL NEW CONSTRUCTION.....	3,028	2,918	3,179	3,556	3,962	4,288	4,420	4,474	4,425	4,302	3,964	3,544	46,060
PRIVATE CONSTRUCTION.....	2,276	2,210	2,400	2,606	2,839	3,030	3,107	3,122	3,073	3,003	2,922	2,654	33,242
Residential buildings (nonfarm).....	1,197	1,120	1,259	1,414	1,539	1,654	1,674	1,672	1,640	1,580	1,521	1,362	17,632
New dwelling units.....	980	895	1,000	1,090	1,150	1,235	1,260	1,260	1,240	1,195	1,140	1,045	13,490
Additions and alterations.....	187	195	229	291	352	379	371	371	360	344	339	277	3,695
Nonhousekeeping.....	30	30	30	33	37	40	43	41	40	41	42	40	447
Nonresidential buildings.....	649	647	655	665	706	761	788	786	787	797	804	772	8,817
Industrial.....	223	225	226	239	253	264	271	277	278	278	276	274	3,084
Commercial.....	270	272	279	276	295	324	332	316	313	320	329	305	3,631
Office buildings and warehouses	124	121	119	122	131	140	146	147	152	160	165	157	1,684
Stores, restaurants, and garages	146	151	160	154	164	184	186	169	161	160	164	148	1,947
Other nonresidential buildings.....	156	150	150	150	158	173	185	193	196	199	199	193	2,102
Religious.....	58	55	53	53	56	62	67	71	73	75	74	71	768
Educational.....	41	40	39	40	42	46	48	49	49	49	47	46	536
Hospital and institutional.....	26	25	25	24	24	25	26	28	30	31	32	32	328
Social and recreational.....	18	17	18	19	21	23	25	27	27	27	27	26	275
Miscellaneous.....	13	13	15	14	15	17	19	18	17	17	19	18	195
Farm construction.....	97	101	111	124	143	156	165	169	158	130	111	97	1,560
Operators' dwellings.....	45	47	52	59	67	73	77	79	73	61	52	45	730
Service buildings.....	52	54	59	65	76	83	88	90	83	69	59	52	830
Public utilities.....	325	335	368	395	441	448	468	483	478	484	475	413	5,113
Railroad.....	23	28	28	33	38	35	41	41	40	41	43	36	427
Telephone and telegraph.....	66	76	80	84	97	93	94	94	87	100	107	88	1,066
Other public utilities.....	236	231	260	278	306	320	333	348	351	343	325	289	3,620
All other private.....	8	7	7	8	10	11	12	12	12	12	11	10	120
PUBLIC CONSTRUCTION.....	752	708	779	950	1,123	1,258	1,313	1,352	1,352	1,299	1,042	890	12,818
Residential buildings.....	20	21	18	23	22	24	23	25	25	30	31	30	292
Nonresidential buildings.....	293	284	301	314	334	358	378	390	381	371	344	324	4,072
Industrial.....	36	33	31	29	32	38	38	43	41	42	45	45	453
Educational.....	190	187	195	205	216	221	231	236	231	226	210	201	2,549
Hospital and institutional.....	20	19	23	23	24	25	26	29	30	30	26	23	298
Administrative and service.....	20	19	23	26	29	32	35	39	39	38	33	29	362
Other nonresidential buildings.....	27	26	29	31	33	42	48	43	40	35	30	26	410
Military facilities.....	87	82	90	104	116	135	136	143	146	141	117	98	1,395
Highways.....	196	177	193	308	427	501	518	530	543	512	326	239	4,470
Sewer and water systems.....	82	77	92	102	109	115	122	125	121	120	110	100	1,275
Sewer.....	46	42	50	57	60	63	68	69	65	65	60	56	701
Water.....	36	35	42	45	49	52	54	56	56	55	50	44	574
Public service enterprises.....	21	19	27	32	34	37	41	40	39	35	32	27	384
Conservation and development.....	48	44	52	59	72	79	84	87	84	79	73	65	826
All other public.....	5	4	6	8	9	9	11	12	13	11	9	7	104

Table 6.—MAINTENANCE AND REPAIRS, ANNUALLY, 1915-56

[Value, in millions of dollars]

Year	Total maintenance and repairs	Residential buildings (nonfarm)	Nonresidential buildings	Farm buildings			Military facilities	Conservation and development (Corps of Engineers)
				Total	Operators' dwellings	Service buildings		
1915.....	1,711	506	200	236	86	150	( <sup>1</sup> )	8
1916.....	1,808	521	210	256	91	165	( <sup>1</sup> )	8
1917.....	1,927	551	230	266	101	165	( <sup>1</sup> )	8
1918.....	2,247	565	260	257	107	150	( <sup>1</sup> )	8
1919.....	2,561	595	280	287	122	165	( <sup>1</sup> )	12
1920.....	2,982	625	290	299	89	210	( <sup>1</sup> )	16
1921.....	2,863	670	320	192	72	120	27	16
1922.....	2,960	714	340	226	83	143	20	14
1923.....	3,209	759	360	296	130	166	17	16
1924.....	3,380	833	380	285	126	159	18	18
1925.....	3,533	908	390	278	121	157	19	20
1926.....	3,751	982	410	274	117	157	19	21
1927.....	3,926	1,056	440	288	127	161	19	23
1928.....	3,977	1,131	460	294	122	172	22	24
1929.....	4,201	1,222	470	324	136	188	24	24
1930.....	3,874	1,111	460	238	92	146	23	26
1931.....	3,232	959	310	170	69	101	23	27
1932.....	2,576	752	230	103	45	58	22	26
1933.....	2,478	728	214	145	66	79	20	26
1934.....	2,942	837	320	179	84	95	19	27
1935.....	3,145	909	358	259	114	145	20	29
1936.....	3,795	1,066	468	254	114	140	21	30
1937.....	3,895	1,154	467	291	123	168	21	31
1938.....	3,884	1,068	471	276	118	158	22	33
1939.....	3,978	1,154	468	318	129	189	27	37
1940.....	4,119	1,256	487	330	140	190	46	37
1941.....	4,485	1,333	526	405	175	230	94	40
1942.....	4,601	1,232	556	353	165	188	219	45
1943.....	4,998	1,217	547	345	182	163	314	49
1944.....	5,316	1,315	547	279	162	117	317	53
1945.....	6,096	1,527	833	241	151	90	336	63
1946.....	8,062	2,705	1,575	458	286	172	275	69
1947.....	10,374	4,200	1,955	574	184	390	240	73
1948.....	11,801	4,800	2,250	618	200	418	258	87
1949.....	11,966	4,800	2,285	581	188	393	295	91
1950.....	12,084	4,600	2,360	639	208	431	369	83
1951.....	13,386	5,000	2,540	722	234	488	614	88
1952.....	14,153	5,300	2,672	744	241	503	702	99
1953.....	14,379	5,300	2,799	677	219	458	637	87
1954.....	14,666	5,700	2,868	609	197	412	579	82
1955.....	15,843	6,500	3,010	619	199	420	567	81
1956.....	16,952	7,000	3,289	604	194	410	635	106

<sup>1</sup> Included in "All other," 1915-20.

Table 6.—MAINTENANCE AND REPAIRS, ANNUALLY, 1915-56—Continued

[Value, in millions of dollars]

Year	Public utilities							
	Total	Railroad	Local transit	Petroleum pipe lines	Electric light and power	Gas	Telephone	Telegraph
1915.....	502	410	51	3	11	11	14	2
1916.....	547	450	53	3	12	11	16	2
1917.....	572	470	55	3	12	11	18	3
1918.....	808	690	65	3	15	11	20	4
1919.....	961	820	74	7	18	13	25	4
1920.....	1,221	1,060	83	10	20	13	30	5
1921.....	973	800	93	8	23	13	31	5
1922.....	970	780	102	9	26	15	33	5
1923.....	1,057	860	108	8	26	15	35	5
1924.....	1,086	840	147	9	31	16	37	6
1925.....	1,110	860	146	9	33	16	40	6
1926.....	1,163	920	128	10	36	18	44	7
1927.....	1,149	920	107	10	38	18	48	8
1928.....	1,090	880	81	11	39	19	52	8
1929.....	1,128	900	89	10	40	23	58	8
1930.....	957	740	82	9	41	23	55	7
1931.....	751	560	67	8	43	23	45	5
1932.....	534	370	52	7	44	19	38	4
1933.....	493	340	47	7	42	18	35	4
1934.....	561	390	52	9	49	19	38	4
1935.....	601	420	53	12	54	19	39	4
1936.....	694	480	72	11	63	21	42	5
1937.....	742	520	63	15	75	21	43	5
1938.....	668	450	59	16	73	21	44	5
1939.....	704	490	60	13	73	19	44	5
1940.....	741	520	55	15	77	21	48	5
1941.....	865	634	50	18	81	21	55	6
1942.....	1,061	832	42	16	84	21	60	6
1943.....	1,415	1,150	56	20	94	24	64	7
1944.....	1,623	1,310	60	28	115	34	68	8
1945.....	1,803	1,462	61	37	123	37	75	8
1946.....	1,582	1,198	65	36	130	45	99	9
1947.....	1,699	1,265	46	37	161	60	120	10
1948.....	1,904	1,405	44	42	184	76	143	10
1949.....	1,877	1,343	43	44	198	84	156	9
1950.....	1,900	1,342	45	44	209	91	160	9
1951.....	2,134	1,543	45	51	226	92	168	9
1952.....	2,203	1,584	47	53	232	97	181	9
1953.....	2,327	1,652	46	55	267	106	192	9
1954.....	2,146	1,410	45	57	288	124	213	9
1955.....	2,214	1,447	45	57	286	145	226	8
1956.....	2,306	1,465	45	60	314	150	262	10

Table 6.—MAINTENANCE AND REPAIRS, ANNUALLY, 1915-56—Continued

[Value, in millions of dollars]

Year	Highways				Sewer and water systems			All other <sup>2</sup>
	Total	State	County	Municipal	Total	Sewer	Water	
1915.....	160	110	( <sup>3</sup> )	50	64	9	55	35
1916.....	160	112	( <sup>3</sup> )	48	68	10	58	38
1917.....	171	116	( <sup>3</sup> )	55	80	12	68	49
1918.....	177	120	( <sup>3</sup> )	57	99	15	84	73
1919.....	223	144	( <sup>3</sup> )	79	118	18	100	85
1920.....	304	203	( <sup>3</sup> )	101	137	22	115	90
1921.....	442	90	226	126	140	22	118	83
1922.....	467	108	225	134	151	25	126	58
1923.....	487	117	230	140	154	26	128	63
1924.....	531	156	223	152	163	29	134	66
1925.....	579	182	226	171	160	29	131	69
1926.....	636	186	255	195	173	32	141	73
1927.....	692	201	279	212	182	35	147	77
1928.....	693	186	297	210	185	36	149	78
1929.....	736	198	310	228	191	39	152	82
1930.....	772	221	321	230	211	43	168	76
1931.....	716	197	294	225	213	45	168	63
1932.....	665	218	254	193	194	42	152	50
1933.....	635	213	241	181	169	38	131	48
1934.....	762	226	325	211	180	41	139	57
1935.....	713	234	285	194	195	46	149	61
1936.....	944	280	420	244	244	58	186	74
1937.....	864	314	358	192	249	60	189	76
1938.....	1,023	316	458	249	247	61	186	76
1939.....	947	288	429	230	245	62	183	78
1940.....	902	308	390	204	240	62	178	80
1941.....	893	315	368	210	242	64	178	87
1942.....	806	291	314	201	239	63	176	90
1943.....	783	288	294	201	231	61	170	97
1944.....	841	328	318	195	237	64	173	104
1945.....	922	364	348	210	252	69	183	119
1946.....	933	329	377	227	308	85	223	157
1947.....	1,074	378	427	269	357	95	262	202
1948.....	1,242	468	477	297	412	108	304	230
1949.....	1,359	492	515	352	445	120	325	233
1950.....	1,423	506	564	353	475	133	342	235
1951.....	1,531	568	588	375	496	141	355	261
1952.....	1,611	616	604	391	546	153	393	276
1953.....	1,701	626	643	432	572	168	404	279
1954.....	1,780	662	665	453	618	186	432	284
1955.....	1,856	694	703	459	685	206	479	311
1956.....	1,970	752	710	508	710	217	493	332

<sup>2</sup> For years 1915-20, includes data for military facilities.<sup>3</sup> Included in "State," 1915-20.

Table 7.—NEW CONSTRUCTION SEASONALLY ADJUSTED, MONTHLY, 1939-56

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1939													
TOTAL NEW CONSTRUCTION.....	719	707	688	696	675	676	676	666	668	661	683	683	8,198
PRIVATE CONSTRUCTION.....	364	361	361	381	363	361	364	359	361	363	377	374	4,389
Residential buildings (nonfarm).....	235	231	229	246	223	216	217	213	211	214	221	224	2,680
Nonresidential buildings.....	55	56	58	60	63	67	70	69	72	69	75	72	786
Industrial.....	14	14	16	18	19	22	24	25	26	24	26	26	254
Commercial.....	21	22	22	21	23	24	24	24	26	27	30	28	292
Office buildings and warehouses	7	8	7	5	5	6	6	6	6	7	9	9	81
Stores, restaurants, and garages	14	14	15	16	18	18	18	18	20	20	21	19	211
Other nonresidential buildings....	20	20	20	21	21	21	22	20	20	18	19	18	240
Farm construction.....	17	17	17	17	17	17	18	18	18	18	19	19	212
Public utilities.....	53	54	54	55	57	58	57	57	58	61	61	58	683
All other private.....	4	3	3	3	3	3	2	2	2	1	1	1	28
PUBLIC CONSTRUCTION.....	355	346	327	315	312	315	312	307	307	298	306	309	3,809
Residential buildings.....	3	4	4	3	4	5	5	5	6	8	9	9	65
Nonresidential buildings.....	88	88	84	88	89	91	86	81	76	69	67	63	970
Military facilities <sup>1</sup> .....	8	8	9	9	9	10	11	11	11	11	13	15	125
Highways.....	150	135	120	108	108	108	107	107	108	110	110	110	1,381
Sewer and water systems.....	33	34	35	33	31	32	32	30	29	26	28	28	371
Sewer.....	21	22	24	22	20	22	21	20	19	17	18	17	243
Water.....	12	12	11	11	11	10	11	10	10	9	10	11	128
Public service enterprises.....	12	12	12	13	12	11	11	11	10	10	11	11	136
Conservation and development.....	47	50	50	47	45	42	44	45	49	46	50	55	570
All other public.....	14	15	13	14	14	16	16	17	18	18	18	18	191
1940													
TOTAL NEW CONSTRUCTION.....	674	658	661	680	695	702	707	714	731	753	838	869	8,682
PRIVATE CONSTRUCTION.....	383	376	379	399	415	430	432	437	442	447	454	460	5,054
Residential buildings (nonfarm).....	230	225	224	238	247	257	258	258	260	261	263	264	2,985
Nonresidential buildings.....	70	67	70	75	80	85	86	90	94	98	102	108	1,025
Industrial.....	26	26	28	31	32	34	36	39	41	44	48	57	442
Commercial.....	27	27	28	28	29	30	29	29	29	31	31	30	348
Office buildings and warehouses	8	8	8	8	7	7	7	7	7	8	8	8	91
Stores, restaurants, and garages	19	19	20	20	22	23	22	22	22	23	23	22	257
Other nonresidential buildings....	17	14	14	16	19	21	21	22	24	23	23	21	235
Farm construction.....	19	19	20	20	20	20	20	20	20	20	21	21	240
Public utilities.....	62	63	62	63	65	65	66	66	65	65	65	64	771
All other private.....	2	2	3	3	3	3	2	3	3	3	3	3	33
PUBLIC CONSTRUCTION.....	291	282	282	281	280	272	275	277	289	306	384	409	3,628
Residential buildings.....	13	15	17	17	16	15	15	14	16	18	21	23	200
Nonresidential buildings.....	57	48	45	44	43	43	44	47	51	56	66	71	615
Military facilities <sup>1</sup> .....	14	12	14	14	14	14	15	17	18	30	98	125	385
Highways.....	104	104	104	106	111	109	111	113	115	115	111	99	1,302
Sewer and water systems.....	26	30	32	32	31	30	28	26	28	24	25	26	338
Sewer.....	14	16	18	17	16	15	15	14	15	13	15	15	183
Water.....	12	14	14	15	15	15	13	12	13	11	10	11	155
Public service enterprises.....	11	11	11	12	12	11	11	11	11	10	10	10	131
Conservation and development.....	50	48	47	45	42	40	41	39	41	44	45	46	528
All other public.....	16	14	12	11	11	10	10	10	9	9	8	9	129

<sup>1</sup> Not adjusted before 1947.



Table 7.—NEW CONSTRUCTION SEASONALLY ADJUSTED, MONTHLY, 1939-56—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1941													
TOTAL NEW CONSTRUCTION.....	923	950	977	967	960	965	984	1,020	1,037	1,075	1,076	1,023	11,957
PRIVATE CONSTRUCTION.....	477	486	494	522	542	548	565	548	530	520	503	471	6,206
Residential buildings (nonfarm).....	271	268	265	286	302	314	332	325	309	298	281	259	3,510
Nonresidential buildings.....	115	125	133	137	137	130	126	118	118	117	116	110	1,482
Industrial.....	65	74	79	80	76	70	65	59	57	58	60	58	801
Commercial.....	31	31	32	35	36	37	36	35	37	35	33	31	409
Office buildings and warehouses	9	9	9	10	10	11	11	11	12	10	10	11	123
Stores, restaurants, and garages	22	22	23	25	26	26	25	24	25	25	23	20	286
Other nonresidential buildings.....	19	20	22	22	25	23	25	24	24	24	23	21	272
Farm construction.....	22	23	24	25	26	27	28	28	27	27	27	26	310
Public utilities.....	66	67	69	71	74	74	75	74	74	76	77	74	872
All other private.....	3	3	3	3	3	3	3	3	2	2	2	2	32
PUBLIC CONSTRUCTION.....	446	464	483	445	418	417	419	472	507	555	573	552	5,751
Residential buildings.....	31	33	32	35	37	37	37	38	37	38	37	38	430
Nonresidential buildings.....	77	89	103	119	130	146	147	150	160	169	177	179	1,646
Military facilities <sup>1</sup> .....	168	167	174	121	72	59	64	113	141	185	187	169	1,620
Highways.....	80	87	83	81	95	95	92	93	92	86	93	89	1,066
Sewer and water systems.....	25	24	23	23	23	22	21	20	19	17	17	18	252
Sewer.....	13	11	10	10	11	10	10	9	9	8	8	8	117
Water.....	12	13	13	13	12	12	11	11	10	9	9	10	135
Public service enterprises.....	11	11	13	13	12	12	11	12	11	11	13	11	141
Conservation and development.....	45	44	47	45	41	38	38	38	39	42	42	41	500
All other public.....	9	9	8	8	8	8	9	8	8	7	7	7	96
1942													
TOTAL NEW CONSTRUCTION.....	992	1,004	1,149	1,150	1,156	1,203	1,423	1,331	1,299	1,228	1,151	989	14,075
PRIVATE CONSTRUCTION.....	438	412	394	378	326	263	224	207	202	197	191	183	3,415
Residential buildings (nonfarm).....	234	222	218	218	185	132	98	83	83	84	80	78	1,715
Nonresidential buildings.....	102	90	77	64	51	43	38	39	38	34	31	28	635
Industrial.....	54	49	40	30	22	21	21	23	24	22	21	19	346
Commercial.....	29	24	22	18	16	11	9	8	6	5	4	3	155
Office buildings and warehouses	10	9	8	7	7	5	4	4	3	2	2	1	62
Stores, restaurants, and garages	19	15	14	11	9	6	5	4	3	3	2	2	93
Other nonresidential buildings.....	19	17	15	16	13	11	8	8	8	7	6	6	134
Farm construction.....	25	24	23	22	21	21	20	20	20	21	21	22	260
Public utilities.....	75	74	74	72	67	65	66	64	60	57	58	54	788
All other private.....	2	2	2	2	2	2	2	1	1	1	1	1	19
PUBLIC CONSTRUCTION.....	554	592	755	772	830	940	1,199	1,124	1,097	1,031	960	806	10,660
Residential buildings.....	31	29	30	30	33	35	44	56	60	67	63	67	545
Nonresidential buildings.....	204	240	249	273	299	330	344	342	373	350	375	306	3,685
Military facilities <sup>1</sup> .....	170	182	342	336	370	453	699	619	561	514	430	340	5,016
Highways.....	77	75	70	69	68	61	55	54	53	52	50	50	734
Sewer and water systems.....	17	16	16	17	17	16	14	13	12	12	9	10	169
Sewer.....	7	6	7	8	7	7	7	7	6	6	4	4	76
Water.....	10	10	9	9	10	9	7	6	6	6	5	6	93
Public service enterprises.....	9	8	9	9	7	6	6	6	6	6	6	7	85
Conservation and development.....	40	36	34	33	31	33	31	28	25	24	21	21	357
All other public.....	6	6	5	5	5	6	6	6	7	6	6	5	69

<sup>1</sup> Not adjusted before 1947.

Table 7.—NEW CONSTRUCTION SEASONALLY ADJUSTED, MONTHLY, 1939-56—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1943													
TOTAL NEW CONSTRUCTION.....	911	860	835	784	759	711	685	646	579	543	499	489	8,301
PRIVATE CONSTRUCTION.....	171	165	153	156	158	160	159	167	168	168	170	184	1,979
Residential buildings (nonfarm).....	72	68	64	68	72	73	74	76	78	78	80	82	885
Nonresidential buildings.....	24	21	16	16	15	17	16	21	21	23	21	22	233
Industrial.....	16	14	12	11	11	10	12	13	14	15	14	14	156
Commercial.....	2	2	2	2	2	3	3	4	3	3	4	3	33
Office buildings and warehouses	1	1	1	1	1	1	1	2	1	1	2	1	14
Stores, restaurants, and garages	1	1	1	1	1	2	2	2	2	2	2	2	19
Other nonresidential buildings.....	6	5	2	3	2	4	1	4	4	5	3	5	44
Farm construction.....	22	23	23	24	24	24	24	24	24	24	24	24	284
Public utilities.....	52	52	49	47	46	45	44	46	45	43	45	56	570
All other private.....	1	1	1	1	1	1	1	0	0	0	0	0	7
PUBLIC CONSTRUCTION.....	740	695	682	628	601	551	526	479	411	375	329	305	6,322
Residential buildings.....	58	56	74	75	86	75	76	57	52	46	44	40	739
Nonresidential buildings.....	267	265	229	190	167	158	149	129	119	108	112	117	2,010
Military facilities <sup>1</sup> .....	321	287	285	271	254	224	211	206	160	147	105	79	2,550
Highways.....	43	42	41	41	38	38	37	36	35	32	30	33	446
Sewer and water systems.....	10	9	9	9	9	9	9	9	8	8	9	9	107
Sewer.....	4	3	3	4	3	4	3	3	3	3	3	2	38
Water.....	6	6	6	5	6	5	6	6	5	5	6	7	69
Public service enterprises.....	7	3	5	4	5	5	4	4	3	3	3	3	49
Conservation and development.....	25	24	28	27	28	27	27	26	22	18	17	16	285
All other public.....	9	9	11	11	14	15	13	12	12	13	9	8	136
1944													
TOTAL NEW CONSTRUCTION.....	502	497	466	453	445	433	429	426	407	399	402	400	5,259
PRIVATE CONSTRUCTION.....	183	188	190	185	184	186	184	182	175	171	175	183	2,186
Residential buildings (nonfarm).....	82	82	80	75	68	67	65	63	59	57	58	59	815
Nonresidential buildings.....	21	22	25	25	29	33	33	33	31	30	33	36	351
Industrial.....	14	14	15	16	18	19	19	19	18	17	18	21	208
Commercial.....	2	3	3	3	4	5	6	6	5	6	7	6	56
Office buildings and warehouses	1	1	1	1	1	2	2	2	1	2	2	1	17
Stores, restaurants, and garages	1	2	2	2	3	3	4	4	4	4	5	5	39
Other nonresidential buildings.....	5	5	7	6	7	9	8	8	8	7	8	9	87
Farm construction.....	24	24	24	24	24	24	24	23	23	23	23	23	283
Public utilities.....	55	59	60	60	62	61	61	62	61	60	60	64	725
All other private.....	1	1	1	1	1	1	1	1	1	1	1	1	12
PUBLIC CONSTRUCTION.....	319	309	276	268	261	247	245	244	232	228	227	217	3,073
Residential buildings.....	36	30	24	22	20	18	16	12	10	8	8	7	211
Nonresidential buildings.....	135	136	128	122	114	106	97	100	100	105	108	110	1,361
Military facilities <sup>1</sup> .....	81	71	60	67	74	70	79	81	72	65	64	53	837
Highways.....	35	37	36	32	29	30	29	28	28	27	25	26	362
Sewer and water systems.....	8	8	7	6	6	5	6	6	7	7	6	7	79
Sewer.....	2	3	2	2	2	2	2	2	3	3	2	2	27
Water.....	6	5	5	4	4	3	4	4	4	4	4	5	52
Public service enterprises.....	4	4	4	3	4	4	4	4	3	4	4	4	46
Conservation and development.....	19	21	15	14	13	13	13	12	11	11	11	10	163
All other public.....	1	2	2	2	1	1	1	1	1	1	1	0	14

<sup>1</sup> Not adjusted before 1947.

Table 7.—NEW CONSTRUCTION SEASONALLY ADJUSTED, MONTHLY, 1939-56--Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	1945												
TOTAL NEW CONSTRUCTION.....	420	432	445	449	470	471	481	485	476	514	558	608	5,809
PRIVATE CONSTRUCTION.....	186	193	204	215	232	247	276	290	316	356	413	483	3,411
Residential buildings (nonfarm).....	62	63	64	69	78	84	103	110	122	144	171	206	1,276
Nonresidential buildings.....	42	48	57	64	69	76	82	87	95	107	133	160	1,020
Industrial.....	27	31	37	43	47	53	56	60	62	66	75	85	642
Commercial.....	7	7	9	9	10	11	13	14	17	23	35	48	203
Office buildings and warehouses	2	2	3	3	3	4	5	5	6	6	8	9	56
Stores, restaurants, and garages	5	5	6	6	7	7	8	9	11	17	27	39	147
Other nonresidential buildings.....	8	10	11	12	12	12	13	13	16	18	23	27	175
Farm construction.....	22	21	20	19	19	20	22	23	23	25	26	27	267
Public utilities.....	59	60	62	62	65	66	67	68	74	77	80	87	827
All other private.....	1	1	1	1	1	1	2	2	2	3	3	3	21
PUBLIC CONSTRUCTION.....	234	239	241	234	238	224	205	195	160	158	145	125	2,398
Residential buildings.....	9	9	8	9	10	9	8	7	3	4	2	2	80
Nonresidential buildings.....	109	110	108	108	104	92	77	69	50	42	37	31	937
Military facilities <sup>1</sup> .....	60	62	67	66	72	71	67	65	50	50	38	22	690
Highways.....	34	33	35	31	31	31	31	31	32	33	37	39	398
Sewer and water systems.....	7	8	7	6	6	6	7	8	9	11	11	11	97
Sewer.....	2	3	2	2	2	2	3	3	4	5	5	4	37
Water.....	5	5	5	4	4	4	4	5	5	6	6	7	60
Public service enterprises.....	4	5	4	3	4	5	4	4	5	6	6	5	55
Conservation and development.....	11	11	11	10	10	9	10	10	10	11	13	14	130
All other public.....	0	1	1	1	1	1	1	1	1	1	1	1	11
	1946												
TOTAL NEW CONSTRUCTION.....	696	794	885	971	1,018	1,061	1,132	1,188	1,220	1,255	1,269	1,248	12,737
PRIVATE CONSTRUCTION.....	563	664	739	815	851	881	931	966	980	990	996	999	10,375
Residential buildings (nonfarm).....	242	302	341	370	382	400	426	439	452	457	467	474	4,752
Nonresidential buildings.....	197	232	256	285	295	295	302	309	299	296	291	284	3,341
Industrial.....	95	108	119	130	136	144	156	164	164	160	159	154	1,689
Commercial.....	71	88	97	111	113	105	99	99	90	90	86	83	1,132
Office buildings and warehouses	13	18	21	23	25	27	29	34	34	37	36	34	331
Stores, restaurants, and garages	58	70	76	88	88	78	70	65	56	53	50	49	801
Other nonresidential buildings.....	31	36	40	44	46	46	47	46	45	46	46	47	520
Farm construction.....	30	35	40	50	60	70	80	90	98	100	101	102	856
Public utilities.....	90	91	99	106	110	113	119	123	126	132	132	133	1,374
All other private.....	4	4	3	4	4	3	4	5	5	5	5	6	52
PUBLIC CONSTRUCTION.....	133	130	146	156	167	180	201	222	240	265	273	249	2,362
Residential buildings.....	2	5	10	13	21	26	32	35	41	58	75	56	374
Nonresidential buildings.....	35	30	27	24	25	26	28	30	34	33	32	30	354
Military facilities <sup>1</sup> .....	18	13	13	15	14	14	14	18	16	20	17	16	188
Highways.....	48	51	62	67	67	72	77	82	87	94	94	94	895
Sewer and water systems.....	11	10	11	11	12	15	17	20	24	22	21	20	194
Sewer.....	5	4	5	4	5	7	9	10	13	12	12	11	97
Water.....	6	6	6	7	7	8	8	10	11	10	9	9	97
Public service enterprises.....	5	5	6	7	6	7	7	8	8	9	8	8	84
Conservation and development.....	13	16	16	18	21	19	25	27	28	28	25	24	260
All other public.....	1	0	1	1	1	1	1	2	2	1	1	1	13

<sup>1</sup> Not adjusted before 1947.

Table 7.—NEW CONSTRUCTION SEASONALLY ADJUSTED, MONTHLY, 1939-56—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year <sup>2</sup>
1947													
TOTAL NEW CONSTRUCTION.....	1,297	1,361	1,340	1,340	1,335	1,386	1,448	1,509	1,584	1,675	1,752	1,785	17,915
PRIVATE CONSTRUCTION.....	1,041	1,060	1,056	1,058	1,071	1,120	1,178	1,233	1,293	1,365	1,433	1,465	14,481
Residential buildings (nonfarm).....	510	528	521	516	522	547	589	635	681	744	810	837	7,535
Nonresidential buildings.....	270	266	256	256	255	253	253	255	257	264	271	273	3,142
Industrial.....	151	149	148	148	149	147	145	141	136	133	130	127	1,702
Commercial.....	73	69	61	62	62	63	62	66	72	79	86	91	856
Office buildings and warehouses	26	24	20	20	19	19	17	17	16	16	19	21	237
Stores, restaurants, and garages	47	45	41	42	43	44	45	49	56	63	67	70	619
Other nonresidential buildings.....	46	48	47	46	44	43	46	48	49	52	55	55	584
Farm construction.....	101	105	108	111	114	117	119	121	123	125	126	127	1,397
Public utilities.....	154	156	166	170	175	198	211	216	224	226	219	223	2,338
All other private.....	6	5	5	5	5	5	6	6	8	6	7	5	69
PUBLIC CONSTRUCTION.....	256	301	284	282	264	266	270	276	291	310	319	320	3,434
Residential buildings.....	37	46	28	17	10	10	9	9	8	9	10	10	200
Nonresidential buildings.....	30	37	42	47	49	49	52	53	56	56	59	67	599
Military facilities.....	15	16	14	16	16	16	17	18	18	19	18	19	204
Highways.....	108	129	128	126	113	112	110	112	123	134	139	130	1,451
Sewer and water systems.....	21	23	24	27	28	30	30	31	32	34	34	34	351
Sewer.....	11	12	13	14	15	16	16	17	17	18	18	19	188
Water.....	10	11	11	13	13	14	14	14	15	16	16	15	163
Public service enterprises.....	11	13	15	13	12	12	11	11	11	11	12	12	141
Conservation and development.....	28	31	29	30	31	32	36	37	38	41	42	42	424
All other public.....	6	6	4	6	5	5	5	5	5	6	5	6	64
1948													
TOTAL NEW CONSTRUCTION.....	1,791	1,738	1,833	1,890	1,940	1,975	2,003	2,024	2,013	1,975	1,952	1,963	23,222
PRIVATE CONSTRUCTION.....	1,457	1,411	1,492	1,534	1,558	1,576	1,585	1,588	1,583	1,543	1,518	1,499	18,396
Residential buildings (nonfarm).....	825	768	835	867	882	879	876	874	860	827	802	792	10,122
Nonresidential buildings.....	273	279	288	289	294	303	314	322	324	314	307	299	3,621
Industrial.....	124	123	122	120	117	116	115	115	115	112	110	108	1,397
Commercial.....	90	94	101	102	103	107	116	118	118	107	100	93	1,253
Office buildings and warehouses	21	22	24	27	28	29	32	33	37	35	33	31	352
Stores, restaurants, and garages	69	72	77	75	75	78	84	85	81	72	67	62	901
Other nonresidential buildings.....	59	62	65	67	74	80	83	89	91	95	97	98	971
Farm construction.....	128	129	129	129	129	129	129	129	129	129	128	127	1,544
Public utilities.....	227	229	234	243	246	259	261	259	265	268	276	276	3,043
All other private.....	4	6	6	6	7	6	5	4	5	5	5	5	65
PUBLIC CONSTRUCTION.....	334	327	341	356	382	399	418	436	430	432	434	464	4,827
Residential buildings.....	11	10	11	12	12	13	13	15	14	14	14	15	156
Nonresidential buildings.....	72	73	79	87	94	101	114	123	124	130	140	146	1,301
Military facilities.....	17	16	17	15	15	14	13	12	12	11	10	10	158
Highways.....	132	130	128	133	147	152	158	157	149	148	140	160	1,774
Sewer and water systems.....	36	35	37	41	44	44	46	48	48	49	50	51	535
Sewer.....	20	20	21	23	25	25	26	27	27	27	28	28	300
Water.....	16	15	16	18	19	19	20	21	21	22	22	23	235
Public service enterprises.....	13	11	12	13	13	14	14	15	14	14	13	14	164
Conservation and development.....	47	46	50	50	52	55	55	59	64	61	60	63	670
All other public.....	6	6	7	5	5	6	5	7	5	5	7	5	69

<sup>2</sup> Monthly data from 1947 may not add to annual totals due to rounding in computation of seasonal factors.



Table 7.—NEW CONSTRUCTION SEASONALLY ADJUSTED, MONTHLY, 1939-56—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year <sup>2</sup>
1949													
TOTAL NEW CONSTRUCTION.....	1,983	1,968	1,927	1,918	1,965	1,968	1,980	1,995	2,034	2,067	2,121	2,198	24,163
PRIVATE CONSTRUCTION.....	1,485	1,447	1,432	1,417	1,426	1,439	1,450	1,453	1,475	1,512	1,565	1,622	17,759
Residential buildings (nonfarm).....	784	742	735	725	743	763	778	790	823	861	908	953	9,642
Nonresidential buildings.....	293	289	285	283	275	268	263	259	250	251	252	261	3,228
Industrial.....	105	102	97	92	86	80	75	72	68	66	65	65	972
Commercial.....	90	89	90	90	88	87	85	85	80	80	80	84	1,027
Office buildings and warehouses	29	28	29	27	27	27	27	27	23	24	25	26	321
Stores, restaurants, and garages	61	61	61	63	61	60	58	58	57	56	55	58	706
Other nonresidential buildings.....	98	98	98	101	101	101	103	102	102	105	107	112	1,229
Farm construction.....	126	124	122	121	120	120	121	122	124	126	129	133	1,488
Public utilities.....	277	286	285	282	282	282	282	275	271	267	268	266	3,323
All other private.....	5	6	5	6	6	6	6	7	7	7	8	9	78
PUBLIC CONSTRUCTION.....	498	521	495	501	539	529	530	542	559	555	556	576	6,404
Residential buildings.....	16	19	23	26	27	34	33	33	37	37	36	35	359
Nonresidential buildings.....	154	164	165	161	164	167	168	175	195	193	180	171	2,068
Military facilities.....	10	11	9	9	10	11	11	12	12	13	13	13	137
Highways.....	189	190	165	170	195	177	176	179	169	166	178	204	2,131
Sewer and water systems.....	52	54	53	50	51	49	49	50	52	53	51	54	619
Sewer.....	29	30	30	28	29	28	28	29	30	31	30	31	354
Water.....	23	24	23	22	22	21	21	21	22	22	21	23	265
Public service enterprises.....	13	16	13	14	16	15	17	16	16	15	15	15	184
Conservation and development.....	60	64	63	67	72	72	72	72	73	74	77	79	852
All other public.....	4	3	4	4	4	4	4	5	5	4	6	5	54
1950													
TOTAL NEW CONSTRUCTION.....	2,236	2,255	2,291	2,356	2,417	2,503	2,557	2,611	2,650	2,646	2,643	2,600	29,965
PRIVATE CONSTRUCTION.....	1,669	1,724	1,720	1,791	1,866	1,934	1,992	2,035	2,057	2,031	1,990	1,978	22,964
Residential buildings (nonfarm).....	989	1,036	1,029	1,095	1,153	1,210	1,255	1,290	1,298	1,247	1,186	1,166	14,100
Nonresidential buildings.....	264	269	269	272	287	298	310	322	338	363	378	387	3,777
Industrial.....	66	68	69	72	77	82	87	93	100	108	115	121	1,062
Commercial.....	85	87	86	88	95	102	106	109	117	130	136	135	1,268
Office buildings and warehouses	26	27	26	27	28	30	32	35	39	43	44	44	402
Stores, restaurants, and garages	59	60	60	61	67	72	74	74	78	87	92	91	886
Other nonresidential buildings.....	113	114	114	112	115	114	117	120	121	125	127	131	1,427
Farm construction.....	133	133	134	135	136	136	137	137	138	138	139	139	1,635
Public utilities.....	272	275	278	278	278	280	281	277	276	276	279	280	3,330
All other private.....	11	11	10	11	12	10	9	9	7	7	8	6	112
PUBLIC CONSTRUCTION.....	567	531	571	565	551	569	565	576	593	615	653	622	7,001
Residential buildings.....	35	32	31	28	28	28	25	25	26	27	30	30	345
Nonresidential buildings.....	169	178	180	184	197	190	190	197	207	223	226	232	2,384
Military facilities.....	12	10	9	9	8	9	9	13	17	24	25	27	177
Highways.....	203	165	203	194	167	192	190	187	192	185	213	176	2,272
Sewer and water systems.....	55	53	51	51	51	51	53	55	57	58	61	63	659
Sewer.....	32	31	30	30	29	29	31	32	33	34	35	37	383
Water.....	23	22	21	21	22	22	22	23	24	24	26	26	276
Public service enterprises.....	14	12	13	14	12	13	12	13	12	14	15	14	160
Conservation and development.....	74	74	77	80	82	81	81	81	78	79	78	75	942
All other public.....	5	7	7	5	6	5	5	5	4	5	5	5	62

<sup>2</sup> Monthly data from 1947 may not add to annual totals due to rounding in computation of seasonal factors.



Table 7.—NEW CONSTRUCTION SEASONALLY ADJUSTED, MONTHLY, 1939-56—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year <sup>2</sup>
1951													
TOTAL NEW CONSTRUCTION.....	2,700	2,713	2,766	2,767	2,750	2,722	2,722	2,724	2,719	2,739	2,719	2,741	32,739
PRIVATE CONSTRUCTION.....	2,021	2,049	2,024	2,002	1,957	1,931	1,919	1,907	1,911	1,912	1,909	1,907	23,320
Residential buildings (nonfarm).....	1,190	1,197	1,143	1,094	1,035	1,002	986	977	986	1,007	1,014	1,005	12,529
Nonresidential buildings.....	388	405	426	447	457	459	460	453	443	421	406	408	5,152
Industrial.....	125	131	143	156	171	187	202	208	207	200	193	195	2,117
Commercial.....	130	135	142	146	135	124	112	103	97	91	88	88	1,371
Office buildings and warehouses	44	46	48	51	51	51	49	47	44	40	38	38	544
Stores, restaurants, and garages	86	89	94	95	84	73	63	56	53	51	50	50	827
Other nonresidential buildings.....	133	139	141	145	151	148	146	142	139	130	125	125	1,664
Farm construction.....	141	143	146	149	152	155	157	158	160	161	162	162	1,846
Public utilities.....	296	296	303	307	309	311	312	314	316	317	321	325	3,729
All other private.....	6	6	6	5	4	4	4	5	6	6	6	7	64
PUBLIC CONSTRUCTION.....	679	664	742	765	793	791	803	817	808	827	810	834	9,419
Residential buildings.....	30	33	38	42	46	47	49	54	59	61	65	66	595
Nonresidential buildings.....	250	257	273	287	292	296	303	306	302	300	305	314	3,497
Military facilities.....	36	44	59	68	71	72	77	78	81	89	95	99	887
Highways.....	194	167	205	203	221	211	212	222	212	222	192	200	2,518
Sewer and water systems.....	67	67	67	67	66	67	66	63	62	62	61	60	775
Sewer.....	36	36	36	37	37	37	36	35	34	34	34	33	425
Water.....	31	31	31	30	29	30	30	28	28	28	27	27	350
Public service enterprises.....	15	16	17	15	16	17	16	16	15	15	13	15	184
Conservation and development.....	82	75	78	78	76	76	76	74	73	74	75	77	912
All other public.....	5	5	5	5	5	5	4	4	4	4	4	3	51
1952													
TOTAL NEW CONSTRUCTION.....	2,740	2,822	2,878	2,878	2,885	2,865	2,875	2,895	2,933	2,971	2,968	2,955	34,750
PRIVATE CONSTRUCTION.....	1,912	1,944	2,006	1,970	1,976	1,962	1,971	1,983	1,997	2,021	2,033	2,048	23,849
Residential buildings (nonfarm).....	993	1,022	1,089	1,051	1,061	1,053	1,057	1,071	1,078	1,101	1,118	1,126	12,842
Nonresidential buildings.....	426	424	421	417	412	403	408	411	417	423	422	428	5,014
Industrial.....	201	202	201	199	195	189	189	188	189	190	189	189	2,320
Commercial.....	95	89	89	89	90	90	92	93	96	100	103	109	1,137
Office buildings and warehouses	44	43	42	41	41	41	42	42	43	44	45	47	515
Stores, restaurants, and garages	51	46	47	48	49	49	50	51	53	56	58	62	622
Other nonresidential buildings.....	130	133	131	129	127	124	127	130	132	133	130	130	1,557
Farm construction.....	162	162	162	162	161	160	159	158	157	155	154	153	1,905
Public utilities.....	324	330	330	334	335	339	340	336	338	335	331	331	4,003
All other private.....	7	6	6	6	7	7	7	7	7	7	8	10	85
PUBLIC CONSTRUCTION.....	828	878	870	908	909	903	904	912	936	950	935	907	10,901
Residential buildings.....	65	64	57	55	56	53	57	55	51	48	47	49	654
Nonresidential buildings.....	315	320	312	323	328	339	349	364	369	368	372	371	4,136
Military facilities.....	107	107	115	117	123	119	118	115	114	112	115	124	1,388
Highways.....	180	224	224	256	247	240	227	223	244	258	240	197	2,820
Sewer and water systems.....	61	61	63	64	66	66	67	66	66	68	68	71	790
Sewer.....	33	33	34	35	36	36	36	36	36	38	39	40	435
Water.....	28	28	29	29	30	30	31	30	30	30	29	31	355
Public service enterprises.....	16	15	15	15	14	13	12	13	13	14	14	15	168
Conservation and development.....	80	84	80	74	71	70	71	72	75	77	75	76	900
All other public.....	4	3	4	4	4	3	3	4	4	5	4	4	45

<sup>2</sup> Monthly data from 1947 may not add to annual totals due to rounding in computation of seasonal factors.

Table 7.—NEW CONSTRUCTION SEASONALLY ADJUSTED, MONTHLY, 1939-56—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year <sup>2</sup>
1953													
TOTAL NEW CONSTRUCTION.....	3,027	3,097	3,103	3,114	3,060	3,108	3,109	3,072	3,091	3,087	3,113	3,128	37,118
PRIVATE CONSTRUCTION.....	2,070	2,097	2,126	2,167	2,146	2,182	2,162	2,147	2,144	2,146	2,157	2,156	25,724
Residential buildings (nonfarm).....	1,133	1,140	1,153	1,174	1,146	1,176	1,158	1,146	1,134	1,135	1,138	1,141	13,777
Nonresidential buildings.....	437	447	451	459	469	473	475	476	485	488	496	502	5,680
Industrial.....	194	197	195	194	197	190	183	179	178	175	173	173	2,229
Commercial.....	115	122	127	131	135	146	152	158	164	169	177	179	1,791
Office buildings and warehouses	48	50	53	55	57	60	61	64	68	71	73	74	739
Stores, restaurants, and garages	67	72	74	76	78	86	91	94	96	98	104	105	1,052
Other nonresidential buildings.....	128	128	129	134	137	137	140	139	143	144	146	150	1,660
Farm construction.....	152	150	149	147	146	145	143	142	141	140	139	137	1,731
Public utilities.....	339	350	363	377	374	377	375	373	374	373	375	366	4,416
All other private.....	9	10	10	10	11	11	11	10	10	10	9	10	120
PUBLIC CONSTRUCTION.....	957	1,000	977	947	914	926	947	925	947	941	956	972	11,394
Residential buildings.....	48	51	49	48	50	51	49	43	44	44	42	39	556
Nonresidential buildings.....	363	369	380	368	357	355	350	348	356	362	360	379	4,346
Military facilities.....	128	138	127	116	116	114	111	103	101	89	92	87	1,307
Highways.....	251	272	251	244	225	242	270	264	276	277	290	293	3,160
Sewer and water systems.....	71	72	71	71	70	71	73	74	77	76	78	79	883
Sewer.....	42	42	42	41	41	42	43	44	46	45	46	46	520
Water.....	29	30	29	30	29	29	30	30	31	31	32	33	363
Public service enterprises.....	15	13	14	14	13	12	14	14	14	15	15	15	167
Conservation and development.....	77	80	80	80	76	74	73	72	71	70	71	72	892
All other public.....	4	5	5	6	7	7	7	7	8	8	8	8	83
1954													
TOTAL NEW CONSTRUCTION.....	3,102	3,137	3,166	3,172	3,236	3,253	3,299	3,358	3,370	3,356	3,444	3,576	39,601
PRIVATE CONSTRUCTION.....	2,136	2,142	2,163	2,206	2,246	2,268	2,310	2,346	2,377	2,402	2,442	2,536	27,679
Residential buildings (nonfarm).....	1,139	1,141	1,154	1,194	1,239	1,241	1,280	1,317	1,346	1,365	1,396	1,477	15,379
Nonresidential buildings.....	500	498	500	505	511	523	529	532	528	527	535	546	6,250
Industrial.....	173	171	172	170	167	165	163	163	163	168	174	180	2,030
Commercial.....	176	173	171	174	179	186	190	195	194	190	187	191	2,212
Office buildings and warehouses	73	74	76	76	78	81	82	85	84	84	82	82	958
Stores, restaurants, and garages	103	99	95	98	101	105	108	110	110	106	105	109	1,254
Other nonresidential buildings.....	151	154	157	161	165	172	176	174	171	169	174	175	2,008
Farm construction.....	137	137	137	137	137	138	138	138	137	137	136	136	1,645
Public utilities.....	352	358	364	361	351	357	353	348	354	361	363	364	4,284
All other private.....	8	8	8	9	8	9	10	11	12	12	12	13	121
PUBLIC CONSTRUCTION.....	966	995	1,003	966	990	985	989	1,012	993	954	1,002	1,040	11,922
Residential buildings.....	38	35	35	33	32	26	26	25	23	22	22	22	336
Nonresidential buildings.....	388	395	386	386	384	382	389	398	382	378	377	383	4,636
Military facilities.....	88	87	86	83	79	83	81	84	83	88	92	99	1,030
Highways.....	284	302	322	291	323	323	324	334	337	299	341	363	3,870
Sewer and water systems.....	79	81	81	79	78	79	80	83	84	85	86	87	982
Sewer.....	45	47	47	46	45	46	47	49	49	49	49	49	568
Water.....	34	34	34	33	33	33	33	34	35	36	37	38	414
Public service enterprises.....	15	17	16	16	17	17	16	16	15	14	14	16	189
Conservation and development.....	65	68	66	68	67	66	64	63	62	61	62	62	773
All other public.....	9	10	11	10	10	9	9	9	7	7	8	8	106

<sup>2</sup> Monthly data from 1947 may not add to annual totals due to rounding in computation of seasonal factors.

Table 7.—NEW CONSTRUCTION SEASONALLY ADJUSTED, MONTHLY, 1939-56—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year <sup>2</sup>
1955													
TOTAL NEW CONSTRUCTION.....	3,615	3,640	3,670	3,712	3,734	3,733	3,731	3,742	3,742	3,769	3,747	3,697	44,581
PRIVATE CONSTRUCTION.....	2,609	2,648	2,680	2,707	2,726	2,743	2,738	2,741	2,757	2,775	2,742	2,712	32,620
Residential buildings (nonfarm).....	1,526	1,539	1,552	1,568	1,584	1,584	1,582	1,567	1,567	1,562	1,539	1,508	18,705
Nonresidential buildings.....	562	584	596	610	618	627	639	650	672	684	676	674	7,611
Industrial.....	181	184	187	188	189	194	203	207	213	216	219	218	2,399
Commercial.....	204	223	240	256	266	270	272	280	295	305	294	294	3,218
Office buildings and warehouses	82	88	97	105	113	117	115	113	115	118	121	124	1,311
Stores, restaurants, and garages	122	135	143	151	153	153	157	167	180	187	173	170	1,907
Other nonresidential buildings.....	177	177	171	166	163	163	164	163	164	163	163	162	1,994
Farm construction.....	136	136	135	135	134	133	133	132	132	132	131	131	1,600
Public utilities.....	370	373	378	378	375	385	371	379	374	386	385	388	4,543
All other private.....	15	16	17	16	15	14	13	13	12	11	11	11	161
PUBLIC CONSTRUCTION.....	1,006	992	990	1,005	1,008	990	993	1,001	985	994	1,005	985	11,961
Residential buildings.....	23	22	23	21	21	23	21	23	23	22	22	22	266
Nonresidential buildings.....	370	362	366	368	365	359	353	341	341	335	331	320	4,218
Military facilities.....	99	98	99	104	109	109	112	114	115	118	114	111	1,313
Highways.....	341	343	331	343	342	325	329	344	326	336	356	352	4,050
Sewer and water systems.....	87	85	87	88	91	91	98	92	92	93	92	91	1,085
Sewer.....	50	48	49	50	52	52	53	52	52	52	53	51	615
Water.....	37	37	38	38	39	39	40	40	40	41	39	40	470
Public service enterprises.....	15	15	16	15	16	18	20	21	22	23	24	24	233
Conservation and development.....	62	59	60	58	57	57	58	58	58	59	57	58	701
All other public.....	9	8	8	8	7	8	7	8	8	8	9	7	95
1956													
TOTAL NEW CONSTRUCTION.....	3,713	3,757	3,760	3,805	3,849	3,879	3,873	3,861	3,857	3,890	3,894	3,904	46,060
PRIVATE CONSTRUCTION.....	2,694	2,737	2,750	2,762	2,785	2,792	2,788	2,780	2,768	2,778	2,822	2,799	33,242
Residential buildings (nonfarm).....	1,480	1,489	1,490	1,482	1,469	1,475	1,464	1,466	1,459	1,451	1,468	1,460	17,632
Nonresidential buildings.....	680	692	708	724	740	754	755	746	744	753	760	764	8,817
Industrial.....	219	225	231	245	260	268	273	276	276	273	269	269	3,084
Commercial.....	296	302	309	311	312	315	308	292	288	296	304	305	3,631
Office buildings and warehouses	123	126	129	134	141	147	147	141	145	148	150	148	1,684
Stores, restaurants, and garages	173	176	180	177	171	168	161	151	143	148	154	157	1,947
Other nonresidential buildings.....	165	165	168	168	168	171	174	178	180	184	187	190	2,102
Farm construction.....	129	129	131	131	130	130	130	130	130	130	131	129	1,560
Public utilities.....	396	419	413	416	437	423	429	427	423	432	452	435	5,113
All other private.....	9	8	8	9	9	10	10	11	12	12	11	11	120
PUBLIC CONSTRUCTION.....	1,019	1,020	1,010	1,043	1,064	1,087	1,085	1,081	1,089	1,112	1,072	1,105	12,818
Residential buildings.....	21	22	18	22	22	23	25	25	25	29	30	29	292
Nonresidential buildings.....	324	324	320	319	326	334	343	349	349	356	358	365	4,072
Military facilities.....	107	108	111	114	118	122	121	122	121	118	113	111	1,395
Highways.....	383	372	361	381	384	392	375	360	368	381	341	369	4,470
Sewer and water systems.....	93	95	99	102	103	105	108	109	112	114	114	115	1,275
Sewer.....	52	52	55	57	57	58	59	60	61	62	62	63	701
Water.....	41	43	44	45	46	47	49	49	51	52	52	52	574
Public service enterprises.....	27	31	33	35	35	33	32	30	30	32	33	34	384
Conservation and development.....	58	61	61	62	68	70	72	77	74	72	73	72	826
All other public.....	6	7	7	8	8	8	9	9	10	10	10	10	104

<sup>2</sup> Monthly data from 1947 may not add to annual totals due to rounding in computation of seasonal factors.

Table 8.—Seasonal indexes for New Construction<sup>1</sup>

[Average for year = 100]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>PRIVATE CONSTRUCTION</b>												
Residential buildings (nonfarm):												
New dwelling units.....	84	77	86	94	101	109	113	114	113	109	104	96
Additions and alterations.....	68	67	78	101	121	124	120	115	112	108	102	84
Nonhousekeeping.....	90	88	86	91	101	112	115	110	105	105	101	96
Nonresidential buildings:												
Industrial.....	102	100	98	98	97	99	99	100	101	102	102	102
Office buildings and warehouses....	101	96	92	91	93	95	99	104	105	108	110	106
Stores, restaurants, and garages....	84	85	89	87	96	110	115	112	112	108	107	94
Religious.....	96	90	88	88	91	99	106	109	111	111	109	102
Educational.....	97	93	89	89	92	98	104	108	109	110	107	104
Hospital and institutional.....	96	95	95	95	98	100	101	105	107	104	104	100
Social and recreational.....	91	84	84	88	95	107	111	115	112	107	106	100
Miscellaneous nonresidential buildings.....	88	89	94	93	106	119	115	101	98	100	102	95
Farm construction.....	75	78	85	95	110	120	127	130	120	100	85	75
Public utilities.....	82	80	89	95	101	106	109	113	113	112	105	95
All other private.....	92	84	84	90	109	115	123	110	103	101	97	92
<b>PUBLIC CONSTRUCTION</b>												
Residential buildings.....	97	97	99	104	98	104	93	101	99	104	102	102
Nonresidential buildings:												
Industrial.....	101	96	99	99	103	112	107	106	97	94	96	90
Educational.....	93	91	95	99	103	104	107	108	107	104	97	92
Hospital and institutional.....	85	80	95	100	105	110	109	115	116	107	96	82
Administrative and service.....	78	73	90	98	108	112	117	124	120	109	91	80
Other nonresidential buildings.....	78	75	85	92	94	113	123	122	124	115	97	82
Military facilities.....	81	76	81	91	98	111	112	118	121	119	104	88
Highway.....	51	48	53	81	111	128	138	147	148	134	96	65
Sewerage facilities.....	88	81	91	101	105	108	115	114	107	104	97	89
Water supply facilities.....	87	81	95	99	107	110	111	115	109	106	96	84
Public service enterprises.....	78	61	82	92	98	112	129	133	130	109	97	79
Conservation and development.....	82	73	86	95	107	113	117	114	113	109	101	90
All other public.....	79	60	87	100	109	115	119	130	126	110	94	71

<sup>1</sup>These indexes were used to seasonally adjust the data for 1956 and preliminary 1957 data. The indexes used for adjusting data in earlier years are available upon request.

Table 9.--NEW CONSTRUCTION: UNADJUSTED; IN 1947-49 PRICES; AND INDEXES OF PHYSICAL VOLUME; ANNUALLY, 1915-56

Year	Value, in millions of dollars						Indexes of physical volume (1947-49 = 100)		
	Unadjusted			In 1947-49 prices					
	Total	Private	Public	Total	Private	Public	Total	Private	Public
1915.....	3,262	2,543	719	11,503	9,096	2,407	53	54	50
1916.....	3,849	3,141	708	12,247	10,209	2,040	57	61	42
1917.....	4,569	3,290	1,279	11,811	8,749	3,062	55	52	63
1918.....	5,118	2,880	2,238	11,124	6,425	4,699	51	38	97
1919.....	6,296	4,320	1,976	12,129	8,610	3,519	56	51	73
1920.....	6,749	5,397	1,352	10,546	8,777	1,769	49	52	37
1921.....	6,004	4,440	1,564	11,621	9,109	2,512	54	54	52
1922.....	7,647	5,963	1,684	16,203	13,210	2,993	75	79	62
1923.....	9,332	7,710	1,622	17,928	15,323	2,605	83	91	54
1924.....	10,407	8,506	1,901	20,099	17,028	3,071	93	101	64
1925.....	11,439	9,301	2,138	22,504	18,913	3,591	104	113	74
1926.....	12,082	9,938	2,144	23,752	20,070	3,682	110	120	76
1927.....	12,034	9,625	2,409	23,787	19,655	4,132	110	117	85
1928.....	11,641	9,156	2,485	23,036	18,657	4,379	107	111	91
1929.....	10,793	8,307	2,486	20,853	16,413	4,440	96	98	92
1930.....	8,741	5,883	2,858	17,440	12,047	5,393	81	72	112
1931.....	6,427	3,768	2,659	13,977	8,427	5,550	65	50	115
1932.....	3,538	1,676	1,862	8,892	4,269	4,623	41	25	96
1933.....	2,879	1,231	1,648	6,631	3,223	3,408	31	19	70
1934.....	3,720	1,509	2,211	7,725	3,604	4,121	36	21	85
1935.....	4,232	1,999	2,233	9,081	4,841	4,240	42	29	88
1936.....	6,497	2,981	3,516	13,489	6,994	6,495	62	42	134
1937.....	6,999	3,903	3,096	13,620	8,200	5,420	63	49	112
1938.....	6,980	3,560	3,420	13,492	7,401	6,091	62	44	126
1939.....	8,198	4,389	3,809	16,080	9,048	7,032	74	54	145
1940.....	8,682	5,054	3,628	16,767	10,124	6,643	78	60	137
1941.....	11,957	6,206	5,751	21,714	11,523	10,191	100	69	211
1942.....	14,075	3,415	10,660	22,852	5,859	16,993	106	35	351
1943.....	8,301	1,979	6,322	12,812	3,182	9,630	59	19	199
1944.....	5,259	2,186	3,073	8,174	3,359	4,815	38	20	100
1945.....	5,809	3,411	2,398	8,681	5,034	3,647	40	30	75
1946.....	12,737	10,375	2,362	16,492	13,500	2,992	76	80	62
1947.....	17,915	14,481	3,434	19,089	15,415	3,674	88	92	76
1948.....	23,222	18,395	4,827	22,235	17,624	4,611	103	105	95
1949.....	24,163	17,759	6,404	23,527	17,306	6,221	109	103	129
1950.....	29,955	22,954	7,001	27,990	21,270	6,720	129	127	139
1951.....	32,739	23,320	9,419	28,327	20,015	8,312	131	119	172
1952.....	34,750	23,849	10,901	29,123	19,889	9,234	135	119	191
1953.....	37,118	25,724	11,394	30,459	20,958	9,501	141	125	197
1954.....	39,601	27,679	11,922	32,612	22,526	10,086	151	134	209
1955.....	44,581	32,620	11,961	35,702	25,810	9,892	165	154	205
1956.....	46,060	33,242	12,818	34,898	24,928	9,970	161	149	206



Table 10.—NEW PRIVATE CONSTRUCTION IN 1947-49 PRICES, ANNUALLY, 1915-56

[Value, in millions of dollars]

Year	Total private <sup>1</sup>	Residential buildings (nonfarm)	Nonresidential buildings <sup>2</sup>				
			Total	Industrial	Office buildings and warehouses	Stores, restaurants, and garages	Other nonresidential buildings
1915.....	9,096	4,569	1,949	776	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
1916.....	10,209	4,842	2,551	885	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
1917.....	8,749	3,584	2,331	1,003	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
1918.....	6,425	2,311	1,819	1,095	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
1919.....	8,610	4,022	2,249	1,283	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
1920.....	8,777	3,398	3,245	1,777	459	610	399
1921.....	9,109	4,422	3,089	1,270	511	678	630
1922.....	13,210	7,671	3,343	1,081	609	768	885
1923.....	15,323	8,961	3,500	1,134	571	889	906
1924.....	17,028	10,455	3,472	960	582	924	1,006
1925.....	18,913	11,514	4,331	1,067	688	1,262	1,314
1926.....	20,070	11,570	5,250	1,511	724	1,545	1,470
1927.....	19,655	10,818	5,349	1,484	772	1,593	1,500
1928.....	18,657	9,958	5,423	1,710	856	1,450	1,407
1929.....	16,413	7,250	5,664	2,081	1,146	1,117	1,320
1930.....	12,047	4,261	4,475	1,307	1,114	697	1,357
1931.....	8,427	3,486	2,776	617	570	470	1,119
1932.....	4,269	1,658	1,439	220	277	321	621
1933.....	3,223	1,237	1,199	510	106	270	313
1934.....	3,604	1,513	1,207	484	143	312	268
1935.....	4,841	2,506	1,255	395	167	394	299
1936.....	6,994	3,753	1,812	638	246	494	434
1937.....	8,200	4,024	2,393	1,038	272	594	489
1938.....	7,401	4,146	1,717	500	184	449	584
1939.....	9,048	5,485	1,780	565	156	497	562
1940.....	10,124	5,913	2,221	918	171	593	539
1941.....	11,523	6,428	2,941	1,514	222	618	587
1942.....	5,859	2,995	1,133	581	102	188	262
1943.....	3,182	1,466	393	246	26	38	83
1944.....	3,359	1,248	599	344	29	70	156
1945.....	5,034	1,813	1,639	999	86	252	302
1946.....	13,500	6,121	4,485	2,133	417	1,180	755
1947.....	15,415	8,010	3,375	1,817	251	670	637
1948.....	17,624	9,635	3,474	1,338	344	864	928
1949.....	17,306	9,478	3,124	954	313	677	1,180
1950.....	21,270	13,019	3,566	1,004	396	828	1,338
1951.....	20,015	10,795	4,494	1,790	500	733	1,471
1952.....	19,889	10,772	4,211	1,909	461	525	1,316
1953.....	20,958	11,365	4,655	1,807	640	857	1,351
1954.....	22,526	12,777	5,073	1,690	789	998	1,596
1955.....	25,810	15,078	6,012	1,946	1,054	1,472	1,540
1956.....	24,928	13,613	6,587	2,304	1,289	1,441	1,553

<sup>1</sup>Public industrial and commercial building not segregable from private construction, 1915-32; amount believed negligible.<sup>2</sup>Excludes nonresidential building by privately owned public utilities.<sup>3</sup>Not available separately; included in total.

Table 10.—NEW PRIVATE CONSTRUCTION IN 1947-49 PRICES, ANNUALLY, 1915-56—Continued

[Value, in millions of dollars]

Year	Farm construction			Public Utilities				All other private
	Total	Operators' dwellings	Service buildings	Total	Railroad	Telephone and telegraph	Other public utilities	
1915.....	781	394	387	1,538	626	103	809	259
1916.....	975	497	478	1,632	669	121	842	209
1917.....	1,127	536	591	1,563	706	143	714	144
1918.....	991	448	543	1,181	601	114	466	123
1919.....	1,138	492	646	1,083	392	114	577	118
1920.....	902	440	462	1,110	225	159	726	122
1921.....	489	227	262	969	275	132	562	140
1922.....	577	267	310	1,431	294	178	959	188
1923.....	652	304	348	2,019	553	208	1,258	191
1924.....	607	281	326	2,281	559	270	1,452	213
1925.....	623	293	330	2,234	620	318	1,296	211
1926.....	596	283	313	2,443	774	357	1,312	211
1927.....	714	331	383	2,539	738	321	1,480	235
1928.....	676	328	348	2,395	704	368	1,323	205
1929.....	622	306	316	2,687	835	529	1,323	190
1930.....	409	232	177	2,742	898	548	1,296	160
1931.....	238	148	90	1,805	535	297	973	122
1932.....	105	70	35	976	278	178	520	91
1933.....	139	85	54	546	194	93	259	102
1934.....	166	94	72	645	256	93	296	73
1935.....	314	158	156	709	232	100	377	57
1936.....	394	192	202	988	293	126	569	47
1937.....	480	239	241	1,247	367	186	694	56
1938.....	407	196	211	1,077	226	176	675	54
1939.....	508	262	246	1,221	262	178	781	54
1940.....	574	355	219	1,353	313	225	815	63
1941.....	665	400	265	1,436	325	309	802	53
1942.....	493	264	229	1,207	295	248	664	31
1943.....	473	207	266	836	298	92	446	14
1944.....	424	165	259	1,066	346	128	592	22
1945.....	378	144	234	1,177	352	167	658	27
1946.....	1,097	530	567	1,731	312	390	1,029	66
1947.....	1,459	707	752	2,496	339	522	1,635	75
1948.....	1,485	708	777	2,966	365	701	1,900	64
1949.....	1,479	699	780	3,151	342	526	2,283	74
1950.....	1,583	741	842	3,001	299	402	2,300	101
1951.....	1,616	764	852	3,056	352	413	2,291	54
1952.....	1,643	781	862	3,194	373	470	2,351	69
1953.....	1,484	704	780	3,362	363	481	2,518	92
1954.....	1,420	675	745	3,166	289	509	2,368	90
1955.....	1,350	643	707	3,257	301	615	2,341	113
1956.....	1,266	605	661	3,381	317	758	2,306	81

Table II.—NEW PUBLIC CONSTRUCTION IN 1947-49 PRICES, ANNUALLY, 1915-56

[Value, in millions of dollars]

Year	Total public <sup>1</sup>	Residential buildings	Nonresidential buildings				
			Total	Industrial	Educational	Hospital and institutional	Other nonresidential buildings
1915.....	2,407	.....	1,009	( <sup>1</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
1916.....	2,040	.....	838	( <sup>1</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
1917.....	3,062	.....	632	( <sup>1</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
1918.....	4,699	71	527	( <sup>1</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
1919.....	3,519	30	505	( <sup>1</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
1920.....	1,769	.....	471	( <sup>1</sup> )	316	55	100
1921.....	2,512	.....	842	( <sup>1</sup> )	596	87	159
1922.....	2,998	.....	1,129	( <sup>1</sup> )	803	141	185
1923.....	2,605	.....	1,006	( <sup>1</sup> )	725	115	168
1924.....	3,071	.....	1,047	( <sup>1</sup> )	748	127	172
1925.....	3,591	.....	1,240	( <sup>1</sup> )	866	132	242
1926.....	3,682	.....	1,305	( <sup>1</sup> )	864	147	294
1927.....	4,132	.....	1,290	( <sup>1</sup> )	794	173	323
1928.....	4,379	.....	1,381	( <sup>1</sup> )	818	234	329
1929.....	4,440	.....	1,427	( <sup>1</sup> )	842	219	366
1930.....	5,393	.....	1,549	( <sup>1</sup> )	854	277	418
1931.....	5,550	.....	1,615	( <sup>1</sup> )	752	290	573
1932.....	4,623	.....	1,258	( <sup>1</sup> )	394	252	612
1933.....	3,406	.....	708	6	157	150	395
1934.....	4,121	2	999	28	402	143	426
1935.....	4,240	22	924	5	432	107	380
1936.....	6,495	146	1,889	10	992	199	688
1937.....	5,420	200	1,268	4	587	169	508
1938.....	6,091	73	1,534	26	714	222	572
1939.....	7,032	130	2,217	53	1,070	299	795
1940.....	6,643	395	1,322	337	333	125	527
1941.....	10,191	788	3,131	2,387	319	92	333
1942.....	16,993	940	6,122	5,640	252	70	160
1943.....	9,630	1,229	3,205	2,940	118	83	64
1944.....	4,815	325	2,273	2,035	75	107	56
1945.....	3,647	115	1,528	1,212	101	148	67
1946.....	2,992	474	495	145	146	125	79
1947.....	3,674	223	644	102	309	92	141
1948.....	4,611	149	1,241	186	591	212	252
1949.....	6,221	353	1,990	173	897	458	462
1950.....	6,720	321	2,237	212	1,061	467	497
1951.....	8,312	512	3,050	821	1,337	466	426
1952.....	9,234	550	3,465	1,384	1,375	401	305
1953.....	9,501	459	3,531	1,434	1,397	297	403
1954.....	10,086	281	3,738	1,253	1,694	286	505
1955.....	9,892	213	3,291	588	1,888	249	566
1956.....	9,970	225	3,016	338	1,887	220	571

<sup>1</sup>Public industrial and commercial building not segregable from private construction, 1915-32; amount believed negligible. <sup>2</sup>Not available separately; included in total.

Note: Leaders (...) represent zero.

Table 11.—NEW PUBLIC CONSTRUCTION IN 1947-49 PRICES, ANNUALLY, 1915-56—Continued

[Value, in millions of dollars]

Year	Military facilities	Highways	Sewer and water systems	Public service enterprises	Conservation and development	All other public
1915.....	54	657	409	135	139	4
1916.....	60	645	292	116	86	3
1917.....	1,498	571	208	89	62	2
1918.....	3,337	437	195	70	60	2
1919.....	2,036	573	236	63	74	2
1920.....	237	674	231	65	83	8
1921.....	90	1,058	338	77	99	8
1922.....	49	1,192	420	90	100	13
1923.....	28	983	369	86	118	13
1924.....	16	1,257	478	122	144	7
1925.....	15	1,448	519	226	136	7
1926.....	20	1,486	533	213	114	11
1927.....	22	1,726	581	374	117	22
1928.....	29	1,947	560	302	134	26
1929.....	37	1,978	466	278	212	42
1930.....	60	2,548	645	303	258	30
1931.....	92	2,542	540	415	312	34
1932.....	91	2,259	356	285	342	32
1933.....	90	1,567	205	131	684	23
1934.....	107	1,636	317	96	883	81
1935.....	85	1,448	335	124	1,200	102
1936.....	65	2,151	586	270	1,114	274
1937.....	77	2,064	496	192	940	183
1938.....	131	2,492	546	203	868	244
1939.....	262	2,478	588	205	895	257
1940.....	780	2,409	531	196	830	180
1941.....	3,063	1,739	378	186	764	142
1942.....	7,979	931	248	109	567	97
1943.....	3,802	516	164	72	436	206
1944.....	1,299	461	118	72	242	25
1945.....	1,060	526	140	80	186	12
1946.....	245	1,089	244	105	327	13
1947.....	217	1,532	379	152	457	70
1948.....	152	1,672	520	158	650	69
1949.....	134	2,128	586	172	804	54
1950.....	171	2,367	590	141	839	54
1951.....	788	2,349	655	144	772	42
1952.....	1,195	2,489	639	129	731	36
1953.....	1,105	2,851	681	122	688	64
1954.....	872	3,689	724	133	571	78
1955.....	1,086	3,812	769	157	497	67
1956.....	1,085	3,920	859	240	556	69

Table 12.--NEW CONSTRUCTION IN 1947-49 PRICES, MONTHLY, 1939-56

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	1939												
TOTAL NEW CONSTRUCTION.....	1,129	1,024	1,107	1,248	1,360	1,492	1,557	1,551	1,532	1,463	1,389	1,228	16,080
PRIVATE CONSTRUCTION.....	652	594	622	715	760	819	854	852	845	818	799	728	9,048
Residential buildings (nonfarm).....	419	359	375	453	470	495	511	511	501	486	473	432	5,485
Nonresidential buildings.....	118	112	119	124	138	161	170	165	171	167	173	162	1,780
Industrial.....	34	31	34	36	40	47	52	54	58	57	61	61	565
Commercial.....	39	39	43	43	53	62	64	59	62	64	66	59	653
Office buildings and warehouses	13	13	12	10	10	12	12	12	13	15	17	17	156
Stores, restaurants, and garages	26	26	31	33	43	50	52	47	49	49	49	42	497
Other nonresidential buildings.....	45	42	42	45	45	52	54	52	51	46	46	42	562
Farm construction.....	31	31	36	39	45	48	56	56	52	43	38	33	508
Operators' dwellings.....	15	15	17	20	22	25	30	30	27	22	22	17	262
Service buildings.....	16	16	19	19	23	23	26	26	25	21	16	16	246
Public utilities.....	78	78	86	94	102	109	111	114	117	120	113	99	1,221
Railroad.....	17	17	19	21	23	25	25	25	25	25	21	19	262
Telephone and telegraph.....	14	12	14	14	15	15	15	15	15	17	17	15	178
Other public utilities.....	47	49	53	59	64	69	71	74	77	78	75	65	781
All other private.....	6	4	6	5	5	6	6	6	4	2	2	2	54
PUBLIC CONSTRUCTION.....	477	440	485	533	600	673	703	699	687	645	590	500	7,032
Residential buildings.....	6	8	8	6	8	10	10	10	12	16	18	18	130
Nonresidential buildings.....	175	168	181	202	213	220	222	209	192	167	143	125	2,217
Industrial.....	2	2	2	5	5	5	5	5	7	7	4	4	53
Educational.....	89	89	92	101	104	106	104	96	89	79	65	56	1,070
Hospital and institutional.....	21	21	24	26	28	31	33	28	26	21	21	19	299
Other nonresidential buildings.....	63	56	63	70	76	78	80	80	70	60	53	46	795
Military facilities.....	17	17	19	19	19	21	23	23	23	23	27	31	262
Highways.....	145	120	131	154	202	252	260	269	272	268	233	172	2,478
Sewer and water systems.....	44	42	49	51	55	62	62	57	51	43	43	40	588
Sewer.....	29	27	33	33	33	38	42	38	33	29	27	24	386
Water.....	15	15	16	18	18	17	20	19	18	14	16	16	202
Public service enterprises.....	13	12	15	18	20	22	23	22	18	16	15	11	205
Conservation and development.....	62	60	66	65	67	69	77	82	92	87	87	81	895
All other public.....	15	13	16	18	20	24	26	27	27	25	24	22	257
	1940												
TOTAL NEW CONSTRUCTION.....	1,058	951	1,039	1,188	1,364	1,504	1,601	1,638	1,646	1,613	1,634	1,531	16,767
PRIVATE CONSTRUCTION.....	679	600	635	726	841	944	983	999	994	957	913	853	10,124
Residential buildings (nonfarm).....	400	337	353	422	501	565	589	596	588	559	527	477	5,913
Nonresidential buildings.....	145	134	139	147	168	194	201	207	215	220	221	230	2,221
Industrial.....	58	56	56	60	64	68	72	80	86	95	102	121	918
Commercial.....	50	48	53	55	64	77	78	71	70	69	67	62	764
Office buildings and warehouses	15	13	13	13	13	14	15	15	15	15	15	15	171
Stores, restaurants, and garages	35	35	40	42	51	63	63	56	55	54	52	47	593
Other nonresidential buildings.....	37	30	30	32	40	49	51	56	59	56	52	47	539
Farm construction.....	34	36	41	46	53	59	61	63	57	46	42	36	574
Operators' dwellings.....	20	22	25	27	32	38	38	40	36	28	26	23	355
Service buildings.....	14	14	16	19	21	21	23	23	21	18	16	13	219
Public utilities.....	91	89	97	106	114	121	127	129	129	127	118	106	1,353
Railroad.....	19	19	21	25	28	28	30	32	32	31	26	22	313
Telephone and telegraph.....	15	15	17	17	19	19	19	18	20	22	23	21	225
Other public utilities.....	57	55	59	64	67	74	78	79	77	74	69	62	815
All other private.....	9	4	5	5	5	5	5	5	5	5	5	5	63
PUBLIC CONSTRUCTION.....	379	351	404	462	523	560	618	639	652	656	721	678	6,643
Residential buildings.....	24	26	32	32	32	32	32	32	34	37	40	42	395
Nonresidential buildings.....	111	90	95	97	97	102	110	118	120	125	130	127	1,322
Industrial.....	7	7	7	11	13	13	19	27	41	53	64	75	337
Educational.....	44	32	30	26	26	28	28	28	25	25	23	18	333
Hospital and institutional.....	14	12	9	9	9	12	12	12	11	9	9	7	125
Other nonresidential buildings.....	46	39	49	51	49	49	51	51	43	38	34	27	527
Military facilities.....	29	25	29	29	29	29	31	35	37	61	197	249	780
Highways.....	89	89	112	158	214	240	282	296	299	281	214	135	2,409
Sewer and water systems.....	34	38	45	49	50	52	54	48	48	41	37	35	531
Sewer.....	18	20	25	27	27	27	27	27	27	21	21	19	286
Water.....	16	18	20	22	23	25	27	21	21	20	16	16	245
Public service enterprises.....	11	12	13	16	20	21	21	23	20	16	13	10	196
Conservation and development.....	63	56	62	65	65	68	72	71	78	81	79	70	830
All other public.....	18	15	16	16	16	16	16	16	16	14	11	10	180



Table 12.—NEW CONSTRUCTION IN 1947-49 PRICES, MONTHLY, 1939-56—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1941													
TOTAL NEW CONSTRUCTION.....	1,502	1,453	1,572	1,658	1,776	1,919	2,018	2,090	2,068	2,069	1,922	1,667	21,714
PRIVATE CONSTRUCTION.....	801	748	789	894	1,018	1,115	1,174	1,138	1,077	1,020	941	808	11,523
Residential buildings (nonfarm).....	433	370	385	470	568	642	700	682	630	583	527	438	6,428
Nonresidential buildings.....	233	241	250	252	263	269	260	240	241	241	235	216	2,941
Industrial.....	136	146	147	144	139	130	118	107	106	112	116	113	1,514
Commercial.....	55	55	59	66	74	86	86	78	80	74	68	59	840
Office buildings and warehouses	15	15	15	17	17	20	22	21	23	19	19	19	222
Stores, restaurants, and garages	40	40	44	49	57	66	64	57	57	55	49	40	618
Other nonresidential buildings.....	42	40	44	42	50	53	56	55	55	55	51	44	587
Farm construction.....	36	40	45	54	61	70	75	76	66	56	47	39	665
Operators' dwellings.....	23	25	28	32	36	43	44	45	40	34	27	23	400
Service buildings.....	13	15	17	22	25	27	31	31	26	22	20	16	265
Public utilities.....	94	92	104	113	121	129	134	135	135	137	129	113	1,436
Railroad.....	22	22	24	27	28	30	30	29	29	32	26	26	325
Telephone and telegraph.....	21	20	23	25	26	28	28	27	27	29	30	25	309
Other public utilities.....	51	50	57	61	67	71	76	79	79	76	73	62	802
All other private.....	5	5	5	5	5	5	5	5	5	3	3	2	53
PUBLIC CONSTRUCTION.....	701	705	783	764	758	804	844	952	991	1,049	981	859	10,191
Residential buildings.....	52	54	56	62	71	71	71	77	73	71	66	64	788
Nonresidential buildings.....	134	148	190	231	259	296	312	316	324	329	304	288	3,131
Industrial.....	85	104	134	169	195	226	241	243	251	258	243	238	2,387
Educational.....	18	20	20	22	24	26	28	30	32	36	34	29	319
Hospital and institutional.....	7	4	9	9	9	9	9	9	9	6	6	4	92
Other nonresidential buildings.....	24	20	27	31	31	35	34	34	32	27	21	17	333
Military facilities.....	333	331	343	235	138	113	121	210	259	338	339	303	3,063
Highways.....	73	73	79	112	161	191	202	211	204	180	152	101	1,739
Sewer and water systems.....	31	30	31	34	36	36	37	35	30	28	25	25	378
Sewer.....	16	14	14	15	15	15	17	15	13	13	11	10	168
Water.....	15	16	17	19	21	21	20	20	17	15	14	15	210
Public service enterprises.....	11	10	14	16	17	20	20	21	17	15	14	11	186
Conservation and development.....	57	50	60	62	62	63	66	67	71	76	71	59	764
All other public.....	10	9	10	12	14	14	15	15	13	12	10	8	142
1942													
TOTAL NEW CONSTRUCTION.....	1,513	1,432	1,761	1,851	1,944	2,067	2,448	2,312	2,220	2,061	1,795	1,448	22,852
PRIVATE CONSTRUCTION.....	696	597	589	617	587	509	440	415	401	379	338	291	5,859
Residential buildings (nonfarm).....	367	301	313	356	344	271	210	194	182	178	157	132	2,995
Nonresidential buildings.....	189	159	131	109	89	80	70	69	70	63	55	49	1,133
Industrial.....	100	85	65	47	35	33	33	36	39	39	37	32	581
Commercial.....	50	41	38	34	31	24	20	16	14	9	7	6	290
Office buildings and warehouses	17	14	12	12	11	8	8	6	6	3	3	2	102
Stores, restaurants, and garages	33	27	26	22	20	16	12	10	8	6	4	4	188
Other nonresidential buildings.....	39	33	28	28	23	23	17	17	17	15	11	11	262
Farm construction.....	39	38	39	41	44	49	49	48	44	39	33	30	493
Operators' dwellings.....	23	21	22	22	24	25	25	25	23	21	17	16	264
Service buildings.....	16	17	17	19	20	24	24	23	21	18	16	14	229
Public utilities.....	99	96	103	108	107	107	108	111	102	97	91	78	1,207
Railroad.....	22	21	23	25	26	27	26	28	26	25	23	23	295
Telephone and telegraph.....	25	25	26	26	23	22	23	22	17	15	14	10	248
Other public utilities.....	52	50	54	57	58	58	59	61	59	57	54	45	604
All other private.....	2	3	3	3	3	2	3	3	3	2	2	2	31
PUBLIC CONSTRUCTION.....	817	835	1,172	1,234	1,357	1,558	2,008	1,897	1,819	1,682	1,457	1,157	16,993
Residential buildings.....	49	44	50	49	57	62	78	106	111	120	106	108	940
Nonresidential buildings.....	317	351	401	459	510	568	626	626	660	601	568	435	6,122
Industrial.....	268	308	349	407	461	521	581	587	625	572	544	417	5,940
Educational.....	29	27	28	30	25	25	23	19	17	13	10	6	252
Hospital and institutional.....	4	4	6	6	8	8	8	8	6	4	4	4	70
Other nonresidential buildings.....	16	12	18	16	16	14	14	12	12	12	10	8	160
Military facilities.....	297	313	576	556	602	727	1,106	972	871	791	654	514	7,979
Highways.....	60	52	58	79	96	100	99	99	90	88	85	45	931
Sewer and water systems.....	21	18	21	24	27	27	25	23	19	19	12	12	248
Sewer.....	8	7	8	11	11	11	11	11	8	8	6	6	106
Water.....	13	11	13	13	16	16	14	12	11	11	6	6	142
Public service enterprises.....	9	6	11	11	11	10	10	10	10	9	8	6	109
Conservation and development.....	57	44	47	48	48	56	55	52	47	45	37	31	567
All other public.....	7	7	8	8	6	8	9	9	11	9	9	6	97

Table 12.—NEW CONSTRUCTION IN 1947-49 PRICES, MONTHLY, 1939-56—Continued  
[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	1943												
TOTAL NEW CONSTRUCTION.....	1,278	1,166	1,191	1,167	1,192	1,169	1,162	1,110	994	903	778	702	12,812
PRIVATE CONSTRUCTION.....	241	216	211	236	263	288	287	305	301	289	274	271	3,182
Residential buildings (nonfarm).....	105	86	84	101	123	136	140	144	145	140	136	126	1,466
Nonresidential buildings.....	42	35	25	26	24	30	25	35	35	40	37	39	393
Industrial.....	27	22	17	16	16	16	17	20	22	25	24	24	246
Commercial.....	4	4	4	4	4	6	6	7	6	6	7	6	64
Office buildings and warehouses	2	2	2	2	2	2	2	3	2	2	3	2	26
Stores, restaurants, and garages	2	2	2	2	2	4	4	4	4	4	4	4	38
Other nonresidential buildings.....	11	9	4	6	4	8	2	8	7	9	6	9	83
Farm construction.....	28	31	35	40	44	49	50	51	47	38	32	28	473
Operators' dwellings.....	13	14	16	16	19	23	22	22	20	16	13	11	207
Service buildings.....	15	17	19	22	25	26	28	29	27	22	19	17	266
Public utilities.....	64	62	65	67	70	71	70	75	74	71	69	78	836
Railroad.....	22	21	23	23	24	24	24	25	25	27	25	35	296
Telephone and telegraph.....	9	8	9	8	8	8	6	7	7	7	7	8	92
Other public utilities.....	33	33	33	36	38	39	40	43	42	37	37	35	446
All other private.....	2	2	2	2	2	2	2	.....	.....	.....	.....	.....	14
PUBLIC CONSTRUCTION.....	1,037	950	980	931	929	881	875	805	693	614	504	431	9,630
Residential buildings.....	88	84	118	121	148	131	132	104	93	78	71	61	1,229
Nonresidential buildings.....	379	364	344	304	277	270	274	240	215	190	176	172	3,205
Industrial.....	363	350	325	283	250	239	240	207	190	170	161	162	2,940
Educational.....	8	6	9	11	13	15	17	15	9	7	4	4	118
Hospital and institutional.....	4	4	6	6	8	8	9	9	9	7	7	6	83
Other nonresidential buildings.....	4	4	4	4	6	8	8	9	7	6	4	.....	64
Military facilities.....	481	426	421	399	375	333	316	309	241	222	159	120	3,802
Highways.....	25	25	27	37	44	53	58	61	64	52	39	31	516
Sewer and water systems.....	12	11	12	12	14	15	17	17	14	14	14	12	164
Sewer.....	5	3	5	5	5	6	6	6	5	5	5	3	59
Water.....	7	8	7	7	9	9	11	11	9	9	9	9	105
Public service enterprises.....	8	3	6	6	7	9	9	7	6	4	4	3	72
Conservation and development.....	33	28	37	37	41	44	46	46	39	33	29	23	436
All other public.....	11	9	15	15	23	26	23	21	21	21	12	9	206
	1944												
TOTAL NEW CONSTRUCTION.....	693	659	651	671	709	722	740	747	708	673	625	576	8,174
PRIVATE CONSTRUCTION.....	246	242	249	265	288	310	315	319	303	282	274	266	3,359
Residential buildings (nonfarm).....	114	105	100	104	108	115	114	113	103	95	92	85	1,248
Nonresidential buildings.....	37	38	40	40	46	54	55	56	55	54	59	65	599
Industrial.....	24	23	23	25	28	30	30	30	30	30	33	38	344
Commercial.....	4	6	6	6	7	8	10	10	9	10	12	11	99
Office buildings and warehouses	2	2	2	2	2	3	3	3	2	3	3	2	29
Stores, restaurants, and garages	2	4	4	4	5	5	7	7	7	7	9	9	70
Other nonresidential buildings.....	9	9	11	9	11	16	15	16	16	14	14	16	156
Farm construction.....	28	29	31	35	39	44	45	45	41	33	29	25	424
Operators' dwellings.....	11	11	13	14	15	17	17	17	16	13	12	9	165
Service buildings.....	17	18	18	21	24	27	28	28	25	20	17	16	259
Public utilities.....	67	70	76	84	93	95	98	102	102	98	92	89	1,066
Railroad.....	24	24	28	28	31	31	31	32	31	29	28	29	346
Telephone and telegraph.....	8	8	8	9	11	11	11	12	12	14	12	12	128
Other public utilities.....	35	38	40	47	51	53	56	58	59	55	52	48	592
All other private.....	.....	.....	2	2	2	2	3	3	2	2	2	2	22
PUBLIC CONSTRUCTION.....	447	417	402	406	421	412	425	428	405	391	351	310	4,815
Residential buildings.....	53	43	36	34	32	29	26	21	16	13	12	10	325
Nonresidential buildings.....	200	196	205	200	197	188	184	190	186	191	172	164	2,273
Industrial.....	186	182	186	184	179	170	163	168	159	166	149	143	2,035
Educational.....	4	6	6	5	4	4	7	7	9	9	7	7	75
Hospital and institutional.....	6	6	6	7	9	9	9	11	13	11	11	9	107
Other nonresidential buildings.....	4	2	7	4	5	5	5	4	5	5	5	5	56
Military facilities.....	124	109	99	103	115	108	122	125	112	101	99	82	1,299
Highways.....	28	28	26	33	39	47	51	51	50	47	35	26	461
Sewer and water systems.....	11	9	9	9	9	9	10	10	12	12	9	9	116
Sewer.....	3	3	3	3	3	3	3	3	4	4	3	3	38
Water.....	8	6	6	6	6	6	7	7	8	8	6	6	80
Public service enterprises.....	5	5	5	5	8	8	8	8	6	6	4	4	72
Conservation and development.....	24	24	19	19	19	21	22	21	21	19	18	15	242
All other public.....	2	3	3	3	2	2	2	2	2	2	2	.....	25

Note: Leaders (...) represent zero.

Table 12.—NEW CONSTRUCTION IN 1947-49 PRICES, MONTHLY, 1939-56—Continued  
[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1945													
TOTAL NEW CONSTRUCTION.....	556	551	604	643	719	750	788	806	785	822	832	825	8,681
PRIVATE CONSTRUCTION.....	239	237	265	289	344	386	442	472	513	561	618	668	5,094
Residential buildings (nonfarm).....	76	67	71	86	112	130	164	176	195	219	248	269	1,813
Nonresidential buildings.....	70	77	89	96	107	121	131	141	156	180	218	253	1,639
Industrial.....	46	51	57	64	71	80	84	92	97	106	119	132	996
Commercial.....	10	10	14	14	17	20	24	25	30	40	58	76	338
Office buildings and warehouses	3	3	5	5	5	6	8	8	9	9	12	13	86
Stores, restaurants, and garages	7	7	9	9	12	14	16	17	21	31	46	63	252
Other nonresidential buildings.....	14	16	18	18	19	21	23	24	29	34	41	45	302
Farm construction.....	24	24	24	25	30	34	40	43	40	35	31	28	378
Operators' dwellings.....	10	10	9	10	10	12	16	16	16	14	11	10	144
Service buildings.....	14	14	15	15	20	22	24	27	24	21	20	18	234
Public utilities.....	69	69	80	81	94	100	104	108	118	123	117	114	1,177
Railroad.....	22	22	26	25	27	28	30	30	36	35	33	38	352
Telephone and telegraph.....	12	10	12	11	13	13	11	13	14	17	20	21	167
Other public utilities.....	35	37	42	45	54	59	63	65	68	71	64	55	658
All other private.....	.....	.....	1	1	1	1	3	4	4	4	4	4	27
PUBLIC CONSTRUCTION.....	317	314	339	354	375	364	346	334	272	261	214	157	3,647
Residential buildings.....	12	12	12	13	14	14	11	11	4	6	3	3	115
Nonresidential buildings.....	162	157	169	178	176	157	139	124	90	74	58	44	1,528
Industrial.....	143	141	149	155	152	129	111	95	57	38	25	17	1,212
Educational.....	5	5	7	7	7	7	9	10	10	12	12	10	101
Hospital and institutional.....	9	7	11	12	12	14	14	14	14	15	14	12	148
Other nonresidential buildings.....	5	4	2	4	5	7	5	5	9	9	7	5	67
Military facilities.....	93	96	104	103	112	110	103	99	76	75	57	32	1,060
Highways.....	24	21	28	33	43	50	55	59	61	60	53	39	526
Sewer and water systems.....	9	9	9	9	9	9	12	14	14	17	15	14	140
Sewer.....	3	3	3	3	3	3	4	6	6	7	7	6	54
Water.....	6	6	6	6	6	6	8	8	8	10	8	8	86
Public service enterprises.....	4	4	4	4	6	9	9	9	9	9	7	6	80
Conservation and development.....	13	13	12	13	14	14	16	17	17	19	20	18	186
All other public.....	.....	2	1	1	1	1	1	1	1	1	1	1	12
1946													
TOTAL NEW CONSTRUCTION.....	851	886	1,017	1,178	1,346	1,500	1,633	1,707	1,719	1,695	1,576	1,384	16,492
PRIVATE CONSTRUCTION.....	709	764	866	1,000	1,131	1,252	1,332	1,371	1,367	1,322	1,251	1,135	13,500
Residential buildings (nonfarm).....	283	307	361	437	507	574	619	634	641	619	600	539	6,121
Nonresidential buildings.....	290	320	340	367	393	416	420	413	400	394	378	354	4,485
Industrial.....	143	151	154	158	167	176	187	195	202	205	202	193	2,133
Commercial.....	97	115	129	149	163	170	163	147	129	121	113	101	1,597
Office buildings and warehouses	17	21	25	28	30	35	39	45	45	47	45	40	417
Stores, restaurants, and garages	80	94	104	121	133	135	124	102	84	74	68	61	1,180
Other nonresidential buildings.....	50	54	57	60	63	70	70	71	69	68	63	60	755
Farm construction.....	31	35	44	61	85	108	128	146	145	122	102	90	1,097
Operators' dwellings.....	14	17	21	30	42	52	62	71	70	59	49	43	530
Service buildings.....	17	18	23	31	43	56	66	75	75	83	53	47	567
Public utilities.....	101	98	117	130	141	149	158	170	175	181	165	146	1,731
Railroad.....	23	22	24	26	26	25	26	26	27	29	31	27	312
Telephone and telegraph.....	24	23	28	32	32	31	32	35	38	43	37	35	390
Other public utilities.....	54	53	65	72	83	93	100	109	110	109	97	84	1,029
All other private.....	4	4	4	5	5	5	7	8	6	6	6	6	66
PUBLIC CONSTRUCTION.....	142	122	151	178	215	248	301	336	352	373	325	249	2,992
Residential buildings.....	3	6	12	16	28	34	42	47	55	75	92	64	474
Nonresidential buildings.....	48	38	38	36	37	39	43	46	51	46	40	33	495
Industrial.....	21	15	12	11	11	9	10	11	13	13	11	8	145
Educational.....	10	8	10	9	11	12	14	16	17	15	13	11	146
Hospital and institutional.....	12	10	11	11	12	12	11	11	11	10	8	6	125
Other nonresidential buildings.....	5	5	5	5	3	6	8	8	10	8	8	8	79
Military facilities.....	26	18	18	20	19	18	18	23	20	25	21	19	245
Highways.....	31	30	46	63	81	100	127	140	141	145	107	78	1,089
Sewer and water systems.....	12	10	12	13	16	20	25	29	32	30	24	21	244
Sewer.....	5	4	5	5	6	9	13	15	17	16	13	12	120
Water.....	7	6	7	8	10	11	12	14	15	14	11	9	124
Public service enterprises.....	6	4	7	8	8	10	11	12	12	12	8	7	105
Conservation and development.....	15	16	17	21	25	26	34	37	39	39	32	26	327
All other public.....	1	.....	1	1	1	1	1	2	2	1	1	1	13

Note: Leaders (...) represent zero.

Table 12.—NEW CONSTRUCTION IN 1947-49 PRICES. MONTHLY, 1939-56—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1947													
TOTAL NEW CONSTRUCTION.....	1,255	1,200	1,221	1,350	1,480	1,637	1,753	1,846	1,897	1,934	1,855	1,661	19,089
PRIVATE CONSTRUCTION.....	1,049	995	998	1,079	1,181	1,298	1,392	1,462	1,502	1,528	1,522	1,409	15,415
Residential buildings (nonfarm).....	493	465	458	516	588	652	715	767	810	853	882	811	8,010
Nonresidential buildings.....	323	296	271	266	263	269	272	273	276	286	295	285	3,375
Industrial.....	183	169	160	156	152	149	146	145	142	141	139	135	1,817
Commercial.....	85	74	62	62	65	73	74	74	78	86	96	93	921
Office buildings and warehouses	33	28	21	21	19	19	18	17	15	16	20	24	251
Stores, restaurants, and garages	52	46	41	41	46	54	56	57	63	70	75	69	670
Other nonresidential buildings.....	55	53	49	48	46	47	52	54	56	59	61	57	637
Farm construction.....	87	91	100	112	133	146	156	161	149	125	105	94	1,459
Operators' dwellings.....	40	42	48	54	64	71	77	80	73	61	51	46	707
Service buildings.....	47	49	52	58	69	75	79	81	76	64	54	48	752
Public utilities.....	141	139	163	179	191	223	240	254	259	258	234	215	2,496
Railroad.....	23	20	22	25	25	29	33	35	34	33	31	29	339
Telephone and telegraph.....	36	37	41	27	33	41	44	46	53	58	52	54	522
Other public utilities.....	82	82	100	127	133	153	163	173	172	167	151	132	1,635
All other private.....	5	4	6	6	6	8	9	7	8	6	6	4	75
PUBLIC CONSTRUCTION.....	206	205	223	271	299	339	361	384	395	406	333	252	3,674
Residential buildings.....	47	47	29	19	10	10	10	12	8	11	10	10	223
Nonresidential buildings.....	32	35	43	52	57	57	59	59	63	64	59	64	644
Industrial.....	7	6	8	9	11	9	10	8	9	9	7	9	102
Educational.....	12	15	20	26	28	29	28	29	29	29	30	34	309
Hospital and institutional.....	6	6	6	7	7	8	9	8	9	9	9	8	92
Other nonresidential buildings.....	7	8	9	10	11	11	12	14	16	17	13	13	141
Military facilities.....	15	14	13	17	16	16	20	23	23	24	19	17	217
Highways.....	54	52	70	102	128	161	169	183	191	197	148	77	1,532
Sewer and water systems.....	20	19	25	32	33	35	37	37	38	37	35	31	379
Sewer.....	10	10	14	17	18	19	20	20	20	20	19	17	204
Water.....	10	9	11	15	15	16	17	17	18	17	16	14	175
Public service enterprises.....	8	8	12	12	14	14	15	16	16	16	12	9	152
Conservation and development.....	24	25	26	31	35	41	44	48	49	50	45	39	457
All other public.....	6	5	5	6	6	5	7	6	7	7	5	5	70
1948													
TOTAL NEW CONSTRUCTION.....	1,466	1,323	1,497	1,694	1,924	2,096	2,170	2,225	2,172	2,071	1,897	1,700	22,235
PRIVATE CONSTRUCTION.....	1,234	1,124	1,244	1,381	1,537	1,648	1,685	1,697	1,659	1,578	1,485	1,352	17,624
Residential buildings (nonfarm).....	673	570	656	762	876	930	945	943	911	858	794	717	9,635
Nonresidential buildings.....	271	263	263	260	271	293	308	314	315	311	311	294	3,474
Industrial.....	130	124	118	113	107	105	103	105	107	108	110	108	1,338
Commercial.....	84	83	88	88	97	112	122	119	114	107	103	91	1,208
Office buildings and warehouses	23	23	23	25	27	27	30	32	33	34	34	33	344
Stores, restaurants, and garages	61	60	65	63	70	85	92	87	81	73	69	58	864
Other nonresidential buildings.....	57	56	57	59	67	76	83	90	94	96	98	95	928
Farm construction.....	94	98	106	118	137	150	157	160	147	122	104	92	1,485
Operators' dwellings.....	46	48	51	57	65	71	74	76	70	58	49	43	708
Service buildings.....	48	50	55	61	72	79	83	84	77	64	55	49	777
Public utilities.....	190	186	212	234	246	268	270	276	282	283	273	246	2,966
Railroad.....	25	22	24	25	33	32	32	34	36	37	34	31	365
Telephone and telegraph.....	48	49	60	64	61	64	62	61	59	59	59	55	701
Other public utilities.....	117	115	128	145	152	172	176	181	187	187	180	160	1,900
All other private.....	6	7	7	7	7	7	5	4	4	4	3	3	64
PUBLIC CONSTRUCTION.....	232	199	253	313	387	448	485	528	513	493	412	348	4,611
Residential buildings.....	12	9	10	12	11	11	12	16	14	15	13	14	149
Nonresidential buildings.....	65	61	73	84	93	101	113	126	128	135	132	130	1,241
Industrial.....	8	6	8	10	14	18	19	24	21	20	18	20	186
Educational.....	36	34	38	41	45	46	51	55	58	61	64	62	591
Hospital and institutional.....	7	8	10	13	15	16	19	22	24	26	26	26	212
Other nonresidential buildings.....	14	13	17	20	19	21	24	25	25	28	24	22	252
Military facilities.....	14	12	14	14	14	13	13	14	14	12	10	8	152
Highways.....	61	47	64	98	150	192	215	228	207	192	133	85	1,672
Sewer and water systems.....	30	28	36	43	46	47	49	50	51	49	47	44	520
Sewer.....	17	16	20	24	26	26	27	28	28	27	26	25	290
Water.....	13	12	16	19	20	21	22	22	23	22	21	19	230
Public service enterprises.....	8	6	9	11	14	16	17	20	19	17	12	9	158
Conservation and development.....	37	32	41	46	54	61	60	66	73	67	59	54	650
All other public.....	5	4	6	5	5	7	6	8	7	6	6	4	69



Table 12.—NEW CONSTRUCTION IN 1947-49 PRICES, MONTHLY, 1939-56—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1949													
TOTAL NEW CONSTRUCTION.....	1,539	1,420	1,530	1,684	1,945	2,119	2,232	2,312	2,337	2,293	2,159	1,957	23,527
PRIVATE CONSTRUCTION.....	1,204	1,111	1,169	1,256	1,411	1,529	1,611	1,639	1,644	1,628	1,599	1,505	17,306
Residential buildings (nonfarm).....	618	536	566	635	748	830	892	914	940	952	949	898	9,478
Nonresidential buildings.....	275	260	254	246	253	263	266	264	257	259	265	262	3,124
Industrial.....	105	99	93	85	80	75	72	71	69	68	68	68	954
Commercial.....	81	76	77	75	82	90	90	86	81	82	86	84	990
Office buildings and warehouses.....	31	28	27	24	25	25	25	26	23	24	27	28	313
Stores, restaurants, and garages.....	50	48	50	51	57	65	65	60	58	58	59	56	677
Other nonresidential buildings.....	89	85	84	85	91	98	104	107	107	109	111	110	1,180
Farm construction.....	92	94	101	112	131	144	154	160	151	128	111	101	1,479
Operators' dwellings.....	43	44	47	53	63	69	74	77	72	60	51	46	699
Service buildings.....	49	50	54	59	68	75	80	83	79	68	60	55	780
Public utilities.....	215	216	243	257	273	284	291	294	289	283	268	238	3,151
Railroad.....	25	24	27	31	32	31	32	31	29	29	29	22	342
Telephone and telegraph.....	42	46	54	48	49	49	42	42	39	39	40	36	526
Other public utilities.....	148	146	162	178	192	204	217	221	221	215	199	180	2,283
All other private.....	4	5	5	6	6	8	8	7	7	6	6	6	74
PUBLIC CONSTRUCTION.....	335	309	361	428	534	590	621	673	693	665	560	452	6,221
Residential buildings.....	15	16	21	25	24	32	32	37	40	41	36	34	353
Nonresidential buildings.....	130	127	144	149	160	167	170	183	214	212	178	156	1,990
Industrial.....	20	19	20	16	17	16	12	11	11	11	11	9	173
Educational.....	62	61	64	68	73	77	80	84	87	83	80	78	897
Hospital and institutional.....	26	25	32	34	37	40	42	46	47	47	43	39	458
Other nonresidential buildings.....	22	22	28	31	33	34	36	42	69	71	44	30	462
Military facilities.....	7	7	8	8	9	11	12	15	15	16	14	12	134
Highways.....	83	64	79	123	200	231	254	280	260	240	191	123	2,128
Sewer and water systems.....	44	43	47	49	50	50	51	52	54	52	48	46	586
Sewer.....	25	25	27	28	28	28	28	29	30	31	28	27	334
Water.....	19	18	20	21	22	22	23	23	24	21	20	19	252
Public service enterprises.....	8	8	9	11	16	16	20	20	21	19	14	10	172
Conservation and development.....	45	42	49	59	71	78	77	80	82	80	74	67	804
All other public.....	3	2	4	4	4	5	5	6	7	5	5	4	54
1950													
TOTAL NEW CONSTRUCTION.....	1,802	1,695	1,853	2,098	2,341	2,617	2,717	2,771	2,784	2,695	2,483	2,134	27,990
PRIVATE CONSTRUCTION.....	1,388	1,346	1,418	1,591	1,780	1,969	2,057	2,086	2,086	2,008	1,872	1,669	21,270
Residential buildings (nonfarm).....	819	782	820	964	1,098	1,232	1,297	1,321	1,325	1,250	1,129	982	13,019
Nonresidential buildings.....	249	245	243	242	264	291	307	310	323	353	373	361	3,566
Industrial.....	67	68	68	69	70	75	80	85	94	104	111	113	1,004
Commercial.....	77	75	75	75	89	106	111	107	113	127	139	130	1,224
Office buildings and warehouses.....	28	27	25	25	26	28	31	34	38	42	46	46	396
Stores, restaurants, and garages.....	49	48	50	50	63	78	80	73	75	85	93	84	828
Other nonresidential buildings.....	105	102	100	98	105	110	116	118	121	122	123	118	1,338
Farm construction.....	100	103	114	128	146	159	168	170	156	130	112	97	1,583
Operators' dwellings.....	46	47	52	59	68	75	80	81	74	61	53	45	741
Service buildings.....	54	56	62	69	78	84	88	89	82	69	59	52	842
Public utilities.....	211	208	233	247	260	275	275	275	271	269	252	225	3,001
Railroad.....	22	16	22	23	25	25	26	27	27	30	30	26	299
Telephone and telegraph.....	28	29	36	32	36	36	35	36	34	35	34	31	402
Other public utilities.....	161	163	175	192	199	214	214	212	210	204	188	168	2,300
All other private.....	9	8	8	10	12	12	10	10	6	6	6	4	101
PUBLIC CONSTRUCTION.....	414	349	435	507	561	648	660	685	698	687	611	465	6,720
Residential buildings.....	35	27	28	27	25	26	22	24	25	27	28	27	321
Nonresidential buildings.....	151	148	164	176	191	187	187	195	208	223	208	199	2,237
Industrial.....	7	7	12	13	16	16	17	18	22	29	27	28	212
Educational.....	77	76	80	82	84	85	87	91	95	102	102	100	1,061
Hospital and institutional.....	37	36	38	40	41	40	40	42	40	39	38	36	467
Other nonresidential buildings.....	30	29	34	41	50	46	43	44	51	53	41	35	497
Military facilities.....	10	8	8	9	8	9	10	15	20	27	25	22	171
Highways.....	104	65	115	163	193	272	289	298	296	261	214	97	2,367
Sewer and water systems.....	46	43	46	47	48	50	51	52	53	53	52	49	590
Sewer.....	27	26	27	28	27	28	29	29	30	31	30	29	341
Water.....	19	17	19	19	21	22	22	23	23	22	22	20	249
Public service enterprises.....	9	7	9	11	12	14	14	15	14	15	12	9	141
Conservation and development.....	55	47	59	69	79	84	82	81	78	77	69	59	839
All other public.....	4	4	6	5	5	6	5	5	4	4	3	3	54



Table 12.—NEW CONSTRUCTION IN 1947-49 PRICES, MONTHLY, 1939-56—Continued  
[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	1951												
TOTAL NEW CONSTRUCTION.....	1,983	1,864	2,063	2,247	2,427	2,586	2,653	2,708	2,676	2,606	2,383	2,131	28,327
PRIVATE CONSTRUCTION.....	1,514	1,447	1,526	1,611	1,699	1,792	1,828	1,833	1,812	1,759	1,668	1,526	20,015
Residential buildings (nonfarm).....	872	804	834	878	906	949	965	957	955	951	913	811	10,795
Nonresidential buildings.....	340	342	355	364	386	406	408	402	396	376	364	355	4,494
Industrial.....	114	118	124	131	139	152	164	171	175	170	166	166	1,790
Commercial.....	112	109	115	115	118	118	108	97	90	84	85	82	1,233
Office buildings and warehouses	45	42	42	43	44	44	44	44	41	37	37	37	500
Stores, restaurants, and garages	67	67	73	72	74	74	64	53	49	47	48	45	733
Other nonresidential buildings.....	114	115	116	118	129	136	136	134	131	122	113	107	1,471
Farm construction.....	96	100	110	125	146	162	173	178	166	138	118	104	1,616
Operators' dwellings.....	45	47	51	59	69	76	82	85	79	65	56	50	764
Service buildings.....	51	53	59	66	77	86	91	93	87	73	62	54	852
Public utilities.....	201	197	223	240	257	271	278	291	290	289	268	251	3,056
Railroad.....	24	20	25	25	29	32	31	33	30	35	36	32	352
Telephone and telegraph.....	31	30	35	33	35	36	35	36	36	37	35	34	413
Other public utilities.....	146	147	163	182	193	203	212	222	224	217	197	185	2,291
All other private.....	5	4	4	4	4	4	4	5	5	5	5	5	54
PUBLIC CONSTRUCTION.....	469	417	537	636	728	794	825	875	864	847	715	605	8,312
Residential buildings.....	25	26	31	36	39	41	41	48	54	56	58	57	512
Nonresidential buildings.....	206	196	231	254	263	272	276	285	280	274	261	252	3,060
Industrial.....	34	31	48	61	66	72	79	89	88	88	83	82	821
Educational.....	99	99	106	110	112	113	116	117	118	117	116	114	1,337
Hospital and institutional.....	36	34	40	42	45	44	41	41	39	38	34	32	466
Other nonresidential buildings.....	37	32	37	41	40	43	40	38	35	31	28	24	426
Military facilities.....	28	31	47	60	61	66	74	82	84	90	88	77	788
Highways.....	88	60	105	151	221	260	282	312	300	286	180	104	2,349
Sewer and water systems.....	53	50	54	57	58	61	60	57	56	54	50	45	655
Sewer.....	29	28	30	31	32	33	32	31	31	30	28	25	360
Water.....	24	22	24	26	26	28	28	26	25	24	22	20	296
Public service enterprises.....	9	7	10	10	13	15	15	16	16	14	10	9	144
Conservation and development.....	57	44	56	64	69	74	73	71	70	70	65	59	772
All other public.....	3	3	3	4	4	5	4	4	4	3	3	2	42
	1952												
TOTAL NEW CONSTRUCTION.....	1,945	1,889	2,111	2,297	2,493	2,641	2,702	2,757	2,783	2,732	2,529	2,244	29,123
PRIVATE CONSTRUCTION.....	1,377	1,344	1,489	1,568	1,688	1,777	1,817	1,839	1,831	1,811	1,743	1,605	19,889
Residential buildings (nonfarm).....	690	664	788	842	923	976	998	1,008	1,002	1,010	981	890	10,772
Nonresidential buildings.....	360	352	340	330	334	341	347	351	362	367	368	359	4,211
Industrial.....	173	174	168	162	156	151	148	149	155	157	158	158	1,906
Commercial.....	80	73	70	68	75	81	86	84	87	90	97	95	986
Office buildings and warehouses	42	39	35	34	34	34	37	38	39	41	44	44	461
Stores, restaurants, and garages	38	34	35	34	41	47	49	46	48	49	53	51	525
Other nonresidential buildings.....	107	105	102	100	103	109	113	118	120	120	113	106	1,316
Farm construction.....	105	109	119	133	153	166	174	176	162	133	113	100	1,643
Operators' dwellings.....	50	52	56	63	73	79	82	84	77	63	54	48	781
Service buildings.....	55	57	63	70	80	87	92	92	85	70	59	52	862
Public utilities.....	217	215	238	258	272	287	291	298	299	295	275	249	3,191
Railroad.....	24	23	26	35	30	34	32	28	33	40	32	36	373
Telephone and telegraph.....	35	36	38	37	41	41	41	41	41	43	39	37	470
Other public utilities.....	158	156	174	186	201	212	218	229	225	212	204	176	2,351
All other private.....	5	4	4	5	6	7	7	6	6	6	6	7	69
PUBLIC CONSTRUCTION.....	568	545	622	729	805	864	885	918	952	921	786	639	9,234
Residential buildings.....	54	50	47	47	47	44	45	47	45	42	41	41	550
Nonresidential buildings.....	245	236	256	275	288	301	310	325	323	317	303	286	3,465
Industrial.....	77	76	88	101	112	123	132	143	143	139	130	120	1,386
Educational.....	112	110	113	116	117	117	117	118	116	115	113	111	1,375
Hospital and institutional.....	32	30	33	35	35	36	35	36	34	33	32	30	401
Other nonresidential buildings.....	24	20	22	23	24	25	26	28	30	30	28	25	306
Military facilities.....	78	74	88	99	103	108	110	115	114	109	103	94	1,195
Highways.....	77	81	111	182	233	272	283	294	329	314	213	100	2,489
Sewer and water systems.....	47	45	50	53	57	58	58	57	56	55	52	51	639
Sewer.....	26	25	28	29	31	31	31	31	31	31	30	29	353
Water.....	21	20	22	24	26	27	27	26	25	24	22	22	286
Public service enterprises.....	9	7	9	10	12	12	11	12	14	13	11	9	129
Conservation and development.....	55	50	58	60	62	66	65	64	67	67	61	56	731
All other public.....	3	2	3	3	3	3	3	4	4	4	2	2	36

Table 12.—NEW CONSTRUCTION IN 1947-49 PRICES, MONTHLY, 1959-56—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1953													
TOTAL NEW CONSTRUCTION.....	2,069	2,010	2,216	2,434	2,587	2,796	2,864	2,879	2,888	2,791	2,604	2,321	30,459
PRIVATE CONSTRUCTION.....	1,448	1,407	1,543	1,689	1,795	1,928	1,940	1,942	1,916	1,880	1,810	1,680	20,958
Residential buildings (nonfarm).....	767	720	820	931	983	1,075	1,073	1,062	1,038	1,025	980	891	11,365
Nonresidential buildings.....	359	360	356	353	372	393	398	400	410	416	425	413	4,656
Industrial.....	165	167	162	157	155	149	141	139	142	143	143	144	1,807
Commercial.....	93	95	97	97	109	128	137	140	145	148	158	150	1,497
Office buildings and warehouses	45	44	43	44	47	49	52	57	61	64	67	67	640
Stores, restaurants, and garages	48	51	54	53	62	79	85	83	84	84	91	83	857
Other nonresidential buildings.....	101	98	97	99	108	116	120	121	123	125	124	119	1,351
Farm construction.....	99	101	110	121	139	149	155	157	145	119	101	88	1,484
Operators' dwellings.....	47	48	52	57	66	70	73	75	69	57	48	42	704
Service buildings.....	52	53	58	64	73	79	82	82	76	62	53	46	780
Public utilities.....	217	220	251	277	292	301	304	315	315	312	297	261	3,362
Railroad.....	24	23	29	32	30	31	31	32	33	34	34	30	363
Telephone and telegraph.....	37	38	39	42	42	42	42	40	39	43	40	37	481
Other public utilities.....	156	159	183	203	220	228	231	243	243	235	223	194	2,518
All other private.....	6	6	6	7	9	10	10	8	8	8	7	7	92
PUBLIC CONSTRUCTION.....	621	603	673	745	792	868	924	937	972	911	794	661	9,501
Residential buildings.....	39	40	39	41	41	42	38	36	38	38	35	32	459
Nonresidential buildings.....	275	268	301	303	301	306	301	302	306	302	284	282	3,531
Industrial.....	113	108	135	130	128	130	123	120	118	113	106	110	1,434
Educational.....	108	109	110	113	114	115	118	118	122	126	123	121	1,397
Hospital and institutional.....	28	27	28	29	27	27	24	24	23	22	19	19	297
Other nonresidential buildings.....	26	24	28	31	32	34	36	40	43	41	36	32	403
Military facilities.....	91	92	94	95	96	103	102	101	99	85	81	66	1,105
Highways.....	103	101	121	175	218	278	339	355	383	349	266	163	2,851
Sewer and water systems.....	51	49	53	56	57	58	61	62	63	60	57	54	681
Sewer.....	30	29	32	32	33	34	36	36	38	36	33	32	401
Water.....	21	20	21	24	24	24	25	26	25	24	24	22	280
Public service enterprises.....	9	6	8	9	10	9	12	13	14	12	11	9	122
Conservation and development.....	51	45	54	61	63	65	64	61	61	58	55	50	688
All other public.....	2	2	3	5	6	7	7	7	8	7	5	5	64
1954													
TOTAL NEW CONSTRUCTION.....	2,091	2,028	2,230	2,470	2,764	2,974	3,092	3,212	3,194	3,033	2,872	2,652	32,612
PRIVATE CONSTRUCTION.....	1,473	1,424	1,555	1,715	1,885	2,015	2,089	2,137	2,136	2,100	2,042	1,955	22,526
Residential buildings (nonfarm).....	765	720	820	957	1,081	1,153	1,205	1,239	1,246	1,232	1,201	1,158	12,777
Nonresidential buildings.....	397	388	384	382	401	432	445	449	449	446	455	445	5,073
Industrial.....	147	146	144	140	135	135	131	132	135	142	149	154	1,690
Commercial.....	135	129	126	125	139	156	165	169	167	161	162	153	1,787
Office buildings and warehouses	63	62	59	58	60	63	66	72	71	72	73	70	789
Stores, restaurants, and garages	72	67	67	67	79	93	99	97	96	89	89	83	998
Other nonresidential buildings.....	115	113	114	117	127	141	149	148	147	143	144	138	1,596
Farm construction.....	89	94	101	113	131	143	151	154	140	117	99	88	1,420
Operators' dwellings.....	42	45	48	54	62	68	72	73	67	55	47	42	675
Service buildings.....	47	49	53	59	69	75	79	81	73	62	52	46	745
Public utilities.....	217	217	245	257	265	279	279	286	292	296	278	255	3,166
Railroad.....	22	21	25	26	25	25	24	21	23	31	23	23	289
Telephone and telegraph.....	32	39	46	46	41	46	42	41	45	45	45	41	509
Other public utilities.....	163	157	174	185	199	208	213	224	224	220	210	191	2,358
All other private.....	5	5	5	5	7	8	9	9	9	9	9	9	90
PUBLIC CONSTRUCTION.....	618	604	675	755	879	959	1,003	1,075	1,058	933	830	697	10,086
Residential buildings.....	31	28	28	29	26	22	20	22	20	19	18	18	281
Nonresidential buildings.....	289	287	301	312	320	329	337	350	327	312	293	281	3,738
Industrial.....	120	118	118	115	110	108	108	108	88	88	87	85	1,253
Educational.....	120	123	129	135	142	146	150	154	156	152	145	142	1,694
Hospital and institutional.....	19	19	22	26	27	27	26	29	25	24	22	20	286
Other nonresidential buildings.....	30	27	32	36	41	48	53	59	58	48	39	34	505
Military facilities.....	62	58	63	67	66	76	82	83	85	80	74	67	872
Highways.....	128	130	167	222	334	393	429	478	489	387	318	214	3,689
Sewer and water systems.....	53	52	57	59	60	63	65	66	67	64	60	56	724
Sewer.....	30	31	33	34	34	36	38	40	39	37	34	32	418
Water.....	23	21	24	25	26	27	27	28	28	27	26	24	306
Public service enterprises.....	9	7	9	10	12	13	14	15	14	11	10	9	133
Conservation and development.....	41	37	43	49	53	55	54	52	51	49	46	41	571
All other public.....	5	5	7	7	8	8	8	8	7	6	5	4	78

Table 12.--NEW CONSTRUCTION IN 1947-49 PRICES, MONTHLY, 1939-56--Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	1955												
TOTAL NEW CONSTRUCTION.....	2,404	2,300	2,523	2,821	3,117	3,318	3,401	3,462	3,413	3,294	3,013	2,636	35,702
PRIVATE CONSTRUCTION.....	1,779	1,718	1,880	2,051	2,224	2,367	2,410	2,422	2,401	2,341	2,211	2,006	25,810
Residential buildings (nonfarm).....	1,021	956	1,080	1,220	1,340	1,423	1,446	1,429	1,405	1,356	1,270	1,132	15,078
Nonresidential buildings.....	436	442	445	450	471	502	524	538	556	562	558	528	6,012
Industrial.....	154	155	154	152	150	155	160	165	170	175	179	177	1,946
Commercial.....	150	160	171	181	200	220	231	238	249	253	247	226	2,526
Office buildings and warehouses	68	69	73	79	85	89	91	94	96	100	106	104	1,054
Stores, restaurants, and garages	82	91	98	102	115	131	140	144	153	153	141	122	1,472
Other residential buildings.....	132	127	120	117	121	127	133	135	137	134	132	125	1,540
Farm construction.....	88	91	98	109	125	135	142	144	133	111	92	82	1,350
Operators' dwellings.....	42	44	47	52	59	64	67	69	63	53	44	39	643
Service buildings.....	46	47	51	57	66	71	75	75	70	58	48	43	707
Public utilities.....	224	220	247	262	277	296	287	301	299	304	283	257	3,257
Railroad.....	19	18	21	22	27	27	27	28	29	31	28	24	301
Telephone and telegraph.....	41	41	48	48	48	56	49	57	55	57	57	58	615
Other public utilities.....	164	161	178	192	202	213	211	216	215	216	198	175	2,341
All other private.....	10	9	10	10	11	11	11	10	8	8	8	7	113
PUBLIC CONSTRUCTION.....	625	582	643	770	893	951	991	1,040	1,012	953	802	630	9,892
Residential buildings.....	18	17	19	18	17	19	16	18	18	18	18	17	213
Nonresidential buildings.....	273	256	275	287	295	300	297	292	286	268	244	218	3,291
Industrial.....	75	64	63	61	58	55	49	41	36	32	30	24	588
Educational.....	143	140	149	158	165	169	169	171	169	162	152	141	1,888
Hospital and institutional.....	20	17	20	21	22	23	24	24	24	21	18	15	249
Other nonresidential buildings.....	35	35	43	47	50	53	55	56	57	53	44	38	566
Military facilities.....	68	64	69	81	90	100	103	110	113	112	96	80	1,086
Highways.....	161	153	171	265	361	396	432	475	453	419	319	207	3,812
Sewer and water systems.....	55	51	58	63	69	70	73	73	70	68	63	56	769
Sewer.....	32	29	32	36	39	40	42	41	39	38	36	32	436
Water.....	23	22	26	27	30	30	31	32	31	30	27	24	333
Public service enterprises.....	8	6	9	10	11	14	17	19	19	17	15	12	157
Conservation and development.....	37	31	37	40	44	46	47	46	46	45	41	37	497
All other public.....	5	4	5	6	6	6	6	7	7	6	6	3	67
	1956												
TOTAL NEW CONSTRUCTION.....	2,353	2,248	2,440	2,723	3,027	3,259	3,345	3,369	3,327	3,230	2,952	2,625	34,898
PRIVATE CONSTRUCTION.....	1,757	1,692	1,832	1,975	2,137	2,268	2,321	2,322	2,281	2,226	2,160	1,957	24,928
Residential buildings (nonfarm).....	947	878	984	1,097	1,186	1,271	1,285	1,281	1,259	1,214	1,167	1,044	13,613
Nonresidential buildings.....	501	495	501	504	532	568	585	582	580	586	590	563	6,587
Industrial.....	174	173	174	182	190	197	201	205	204	204	201	199	2,304
Commercial.....	209	209	214	210	224	243	248	235	233	237	244	224	2,730
Office buildings and warehouses	98	95	94	95	102	107	111	111	115	120	124	117	1,289
Stores, restaurants, and garages	111	114	120	115	122	136	137	124	118	117	120	107	1,441
Other nonresidential buildings.....	118	113	113	112	118	128	136	142	143	145	145	140	1,553
Farm construction.....	80	83	92	101	116	126	134	136	125	105	89	79	1,266
Operators' dwellings.....	38	39	44	49	55	60	64	65	60	50	43	38	605
Service buildings.....	42	44	48	52	61	66	70	71	65	55	46	41	661
Public utilities.....	223	231	250	268	296	296	309	315	309	313	307	264	3,381
Railroad.....	18	22	21	25	29	26	30	30	29	30	31	26	317
Telephone and telegraph.....	49	56	58	61	69	66	67	66	61	70	74	61	758
Other public utilities.....	156	153	171	182	198	204	212	219	219	213	202	177	2,306
All other private.....	6	5	5	5	7	7	8	8	8	8	7	7	81
PUBLIC CONSTRUCTION.....	596	556	608	748	890	991	1,024	1,047	1,046	1,004	792	668	9,970
Residential buildings.....	16	16	14	18	17	18	18	19	19	23	24	23	225
Nonresidential buildings.....	223	214	227	235	249	266	278	287	279	271	251	236	3,016
Industrial.....	28	25	24	22	24	28	28	32	30	31	33	33	338
Educational.....	144	141	147	153	161	164	170	174	169	165	153	146	1,887
Hospital and institutional.....	15	14	17	17	18	19	19	21	22	22	19	17	220
Other nonresidential buildings.....	36	34	39	43	46	55	61	60	58	53	46	40	571
Military facilities.....	70	66	72	83	91	105	105	110	112	108	89	74	1,085
Highways.....	180	162	175	277	382	442	452	457	467	441	280	205	3,320
Sewer and water systems.....	57	53	63	70	74	78	82	83	80	80	73	66	859
Sewer.....	32	29	34	39	41	43	46	46	43	43	40	37	473
Water.....	25	24	29	31	33	35	36	37	37	37	33	29	386
Public service enterprises.....	14	12	17	20	22	23	26	25	24	21	20	16	240
Conservation and development.....	33	30	36	40	49	53	56	58	56	53	49	43	556
All other public.....	3	3	4	5	6	6	7	8	9	7	6	5	69

Table 13.—COST INDEXES USED IN ADJUSTING VALUE OF NEW CONSTRUCTION TO 1947-49 PRICES<sup>1</sup>

Type of construction to which specified index is applied	Applicable deflating index		Monthly trend index
	Name of index	Frequency of availability	
Residential buildings (nonfarm)	E. H. Boeckh & Associates—residential..	Monthly	
Industrial buildings.....	Turner Construction Company.....	Annually.....	Boeckh—Commercial and factory
Office buildings and warehouses	George A. Fuller Company.....	Annually.....	Boeckh—hotel and office
Stores, restaurants, and garages..	American Appraisal Company.....	Monthly	
Educational buildings.....	American Appraisal Company.....	Monthly	
Hospital and institutional buildings.....	American Appraisal Company.....	Monthly	
Other nonresidential buildings.	American Appraisal Company.....	Monthly	
Farm operators' dwellings.....	Agricultural Marketing Service.....	Annually.....	Boeckh—residential
Farm service buildings.....	Agricultural Marketing Service.....	Annually.....	American Appraisal Company
Railroad.....	Interstate Commerce Commission—railroad	Annually.....	Engineering News-Record—construction
Telephone and telegraph.....	Interstate Commerce Commission—telephone & telegraph	Annually.....	Engineering News-Record—construction
Local transit (private).....	Interstate Commerce Commission—railroad	Annually.....	Engineering News-Record—construction
Electric light and power..... (private)	weighted average of: <u>weight</u> *Handy-Whitman—electric plant... 9 .... Handy-Whitman—utility building.. 1 ....	Semi-annually Semi-annually	Engineering News-Record—construction Boeckh—commercial and factory
Gas.....	weighted average of: <u>weight</u> Handy-Whitman—gas plant..... 9 .... Handy-Whitman—utility building.. 1 ....	Semi-annually Semi-annually	Engineering News-Record—construction Boeckh—commercial and factory
Petroleum pipe lines.....	unweighted average of: Handy-Whitman—electrical plant..... Handy-Whitman—gas plant..... Handy-Whitman—utility building..... Interstate Commerce Commission—railroad	Semi-annually Semi-annually Semi-annually Annually.....	Engineering News-Record—construction Engineering News-Record—construction Boeckh—commercial and factory Engineering News-Record—construction
Military facilities.....	unweighted average of: American Appraisal Company..... Bureau of Public Roads..... George A. Fuller Company..... Turner Construction Company.....	Monthly Quarterly.... Annually..... Annually.....	Engineering News-Record—construction Boeckh—hotel and office Boeckh—commercial and factory
Highways.....	Bureau of Public Roads.....	Quarterly....	Engineering News-Record—construction
Sewer and water systems.....	unweighted average of: Associated General Contractors..... Engineering News-Record—construction..	Monthly Monthly	
Public service enterprises....	weighted average of: <u>weight</u> Handy-Whitman—electric plant... 9 ..... Handy-Whitman—utility building.. 1 ....	Semi-annually Semi-annually	Engineering News-Record—construction Boeckh—commercial and factory
Conservation and development...	unweighted average of: Associated General Contractors..... Engineering News-Record—construction..	Monthly Monthly	
All other private.....	unweighted average of: Associated General Contractors..... Engineering News-Record—construction..	Monthly Monthly	
All other public.....	unweighted average of: Associated General Contractors..... Engineering News-Record—construction..	Monthly Monthly	

<sup>1</sup>Where the applicable deflating index is not available on a monthly basis, monthly deflators are estimated by interpolating between reporting periods and extrapolating from the latest reporting period. An appropriate monthly index (listed under monthly trend index) is used, by linking to the deflating index, to estimate the monthly values of the deflator.

\* Whitman, Requaardt, and Associates.

## Section II.—CONSTRUCTION COSTS

Table 14.—CONSTRUCTION COST INDEXES, ANNUALLY, 1915-56

[ 1947-49 = 100 ]

Year	Department of Commerce Composite	American Appraisal Company	Associated General Contractors	E. H. Boeckh and Associates			Engineering News-Record	
				Residences	Apartments, hotels, and office buildings	Commercial and factory buildings	Building	Construction
1915.....	28	22	31	26.7	27.6	28.5	28.3	20.6
1916.....	31	25	35	28.4	30.9	33.0	38.9	28.8
1917.....	39	30	47	33.2	37.1	40.2	49.6	40.2
1918.....	46	38	54	39.6	42.2	44.3	47.3	42.0
1919.....	52	49	61	46.0	47.9	48.8	47.2	44.1
1920.....	64	60	76	59.3	61.3	60.8	61.6	55.8
1921.....	52	46	70	47.6	49.2	49.7	49.4	44.8
1922.....	47	43	57	43.8	46.2	46.1	46.0	38.7
1923.....	52	48	62	49.1	51.1	51.5	55.3	47.5
1924.....	52	47	63	48.4	50.2	51.3	55.2	47.8
1925.....	51	46	62	47.9	50.6	50.9	54.3	45.9
1926.....	51	46	61	48.4	51.0	51.3	55.0	46.2
1927.....	51	46	62	47.7	50.3	50.7	55.3	45.8
1928.....	51	46	62	47.9	50.5	50.7	55.9	45.9
1929.....	52	46	63	50.0	51.7	52.2	56.7	46.0
1930.....	50	43	62	48.7	50.9	51.4	55.1	45.0
1931.....	46	38	61	44.9	46.9	47.6	50.4	40.3
1932.....	40	33	53	38.0	40.0	41.0	41.9	34.9
1933.....	43	32	50	38.0	41.1	42.0	43.9	37.8
1934.....	46	34	55	41.3	45.2	45.8	49.5	44.0
1935.....	47	35	54	40.3	44.5	45.1	49.3	43.6
1936.....	48	36	55	41.7	45.8	46.5	51.2	45.8
1937.....	51	42	58	46.6	51.1	51.9	58.3	52.1
1938.....	52	42	59	48.0	53.2	53.8	58.5	52.4
1939.....	49	43	58	48.9	53.9	54.3	58.7	52.3
1940.....	50	43	58	50.5	54.8	55.2	60.3	53.7
1941.....	54	46	61	54.6	57.3	57.9	62.9	57.3
1942.....	61	51	65	57.6	60.4	60.8	66.1	61.4
1943.....	65	54	67	60.2	62.8	63.2	68.0	64.4
1944.....	64	56	69	65.4	67.0	67.5	69.8	66.3
1945.....	67	58	71	70.1	71.3	71.6	71.1	68.3
1946.....	77	69	80	77.0	78.0	78.1	78.0	76.8
1947.....	93	92	92	93.2	91.7	91.7	93.0	91.8
1948.....	104	104	103	104.8	103.5	103.6	102.4	102.3
1949.....	103	104	106	102.1	104.8	104.8	104.6	105.9
1950.....	107	106	110	107.7	109.6	109.5	111.6	113.2
1951.....	116	113	117	116.0	118.0	117.8	119.1	120.5
1952.....	119	118	120	119.1	122.0	121.9	123.5	126.4
1953.....	122	123	126	121.2	125.8	126.2	128.1	133.2
1954.....	122	126	132	120.3	126.8	127.7	132.5	139.5
1955.....	125	129	136	123.9	130.6	131.9	139.3	146.5
1956.....	132	135	143	129.4	137.0	138.7	145.9	153.8



Table 14.—CONSTRUCTION COST INDEXES, ANNUALLY, 1915-56—Continued

[1947-49 = 100]

Year	Agricultural Marketing Service		George A. Fuller Co.	Handy-Whitman Public Utility			Interstate Commerce Commission, Bureau of Valuation		Bureau of Public Roads Highway	Turner Construc- tion Co. Industrial building
	Farm operators' dwellings	Farm service buildings		Building construc- tion	Gas Plant construc- tion	Electric light and power	Railroad construc- tion	Telephone and telegraph lines		
1915...	28	31	35	34	27	29	39	42	46.0	25
1916...	31	36	38	39	33	36	42	50	48.7	30
1917...	37	42	42	56	45	44	51	60	56.0	36
1918...	45	51	43	58	53	51	61	64	67.7	41
1919...	55	59	45	57	57	53	68	67	74.9	48
1920...	60	65	56	68	61	58	82	78	97.4	62
1921...	43	48	51	53	57	54	67	77	80.6	45
1922...	45	48	47	46	47	53	60	66	73.5	43
1923...	47	50	51	53	51	52	65	76	81.9	48
1924...	47	51	52	57	55	53	65	73	78.5	48
1925...	48	52	52	55	53	53	63	66	74.7	48
1926...	48	51	54	54	52	52	63	64	71.8	48
1927...	48	51	53	53	51	51	63	66	70.8	47
1928...	48	50	53	52	49	52	62	67	66.2	47
1929...	48	51	54	53	50	55	61	67	64.0	46
1930...	46	49	54	50	50	52	58	61	59.5	41
1931...	40	42	48	46	48	51	55	56	53.3	36
1932...	34	37	42	42	44	48	50	49	42.4	34
1933...	34	37	42	43	44	49	49	48	53.3	35
1934...	38	42	46	48	49	54	50	50	58.3	40
1935...	39	42	45	48	50	55	50	52	56.0	40
1936...	40	42	45	49	52	56	51	53	57.6	42
1937...	42	44	50	54	56	61	54	55	55.1	47
1938...	40	44	52	53	57	61	53	52	50.6	46
1939...	40	43	52	53	57	61	52	52	50.4	45
1940...	41	44	53	53	58	62	53	54	49.7	48
1941...	45	48	55	58	60	65	58	58	56.5	53
1942...	52	55	62	63	63	67	67	63	75.6	60
1943...	59	61	64	63	64	68	71	67	86.7	63
1944...	66	67	65	64	65	68	71	67	78.5	60
1945...	70	71	65	66	66	69	75	70	75.7	65
1946...	76	78	78	77	77	79	82	78	82.6	79
1947...	96	95	95	90	91	92	94	97	93.8	94
1948...	104	104	102	103	102	101	103	102	105.0	104
1949...	100	102	103	108	107	107	103	101	101.3	102
1950...	102	104	101	112	111	113	105	109	95.6	105
1951...	112	115	109	121	121	127	114	118	106.7	118
1952...	114	118	112	124	124	131	118	122	112.8	121
1953...	115	118	115	130	129	137	122	128	111.3	123
1954...	114	118	121	135	136	141	122	129	105.0	121
1955...	117	120	124	141	142	146	126	131	106.1	123
1956...	120	125	130	154	155	159	134	141	113.4	134

Table 15.—CONSTRUCTION COST INDEXES, MONTHLY, 1951-56

[1947-49 = 100]

Year and month	Department of Commerce Composite	American Appraisal Company	Associated General Contractors	E. H. Boeckh and Associates			Engineering News-Record	
				Residences	Apartments, hotels, and office buildings	Commercial and factory buildings	Building	Construction
1951:								
January.....	113	111	116	114.0	115.9	115.6	116.8	118.3
February.....	114	111	116	115.3	116.8	116.7	118.4	119.6
March.....	114	112	116	115.5	117.2	117.0	118.7	119.9
April.....	115	112	116	115.6	117.2	117.1	118.9	120.1
May.....	115	112	117	116.2	118.1	117.9	119.2	120.7
June.....	116	113	117	116.2	118.3	118.0	119.1	120.7
July.....	116	114	117	115.8	118.2	118.0	119.0	120.6
August.....	116	114	117	115.9	118.3	118.0	119.0	120.7
September.....	116	114	117	116.6	118.7	118.5	119.0	120.7
October.....	117	114	117	117.2	119.2	118.9	119.9	121.5
November.....	117	114	117	117.2	119.2	118.9	120.2	121.6
December.....	117	115	118	117.1	119.5	119.0	120.6	121.8
1952:								
January.....	117	115	118	117.7	120.0	119.6	120.6	121.8
February.....	117	116	117	117.6	119.8	119.5	120.7	122.1
March.....	117	116	117	117.6	119.9	119.7	121.1	122.4
April.....	117	116	117	118.0	120.4	120.1	121.2	123.2
May.....	118	117	118	118.3	120.8	120.8	122.0	123.8
June.....	119	117	118	119.4	122.0	121.9	122.6	124.9
July.....	120	118	121	119.8	122.7	122.8	123.2	126.9
August.....	121	119	122	120.2	123.4	123.5	125.6	129.8
September.....	121	119	122	120.4	123.7	123.9	125.1	130.3
October.....	121	120	123	120.2	123.8	123.9	126.3	130.8
November.....	121	120	123	119.9	123.6	123.7	126.6	130.8
December.....	120	121	123	119.8	123.6	123.7	126.3	130.6
1953:								
January.....	121	121	123	120.1	123.8	124.0	126.3	130.6
February.....	121	121	123	120.1	123.7	124.0	126.4	130.5
March.....	121	121	123	120.3	124.0	124.3	126.3	130.6
April.....	121	122	124	120.4	124.2	124.5	126.7	131.0
May.....	121	122	124	120.8	124.8	125.1	126.7	130.9
June.....	122	122	127	121.5	125.8	126.5	126.7	131.8
July.....	123	123	127	122.4	127.0	127.7	129.4	134.3
August.....	123	124	129	122.1	127.2	127.7	129.9	136.0
September.....	123	124	129	121.9	127.4	127.9	129.6	135.7
October.....	122	124	129	121.4	127.1	127.7	129.6	135.8
November.....	122	124	129	121.5	127.3	127.8	129.6	135.9
December.....	122	124	129	121.3	127.3	127.8	129.4	135.8

Table 15.—CONSTRUCTION COST INDEXES, MONTHLY, 1951-56—Continued

[1947-49 = 100]

Year and month	Department of Commerce Composite	American Appraisal Company	Associated General Contractors	E. H. Boeckh and Associates			Engineering News-Record	
				Residences	Apartments, hotels, and office buildings	Commercial and factory buildings	Building	Construction
1954:								
January.....	121	124	131	120.4	126.4	127.0	129.7	136.4
February.....	121	124	130	119.5	125.9	126.5	129.9	136.5
March.....	121	125	130	119.6	125.8	126.4	129.8	136.4
April.....	120	124	131	119.1	125.6	126.4	130.0	136.7
May.....	121	125	131	119.5	126.3	127.0	130.2	137.4
June.....	121	125	131	120.0	126.5	127.3	130.7	138.1
July.....	122	126	133	120.7	127.1	128.2	132.0	139.5
August.....	122	126	133	120.7	127.4	128.5	135.4	142.5
September.....	122	127	133	120.8	127.5	128.6	135.0	142.2
October.....	123	127	134	121.0	127.6	128.7	135.4	142.5
November.....	122	127	134	121.0	127.5	128.6	135.6	142.7
December.....	122	127	134	121.1	127.7	128.7	135.8	142.7
1955:								
January.....	122	127	134	121.5	127.9	128.9	136.1	142.9
February.....	122	127	134	121.5	128.0	129.0	136.6	143.3
March.....	123	128	134	121.9	128.2	129.2	136.6	143.4
April.....	123	128	134	122.6	128.9	130.0	136.9	143.8
May.....	124	128	136	123.3	129.5	130.6	137.5	145.1
June.....	125	129	135	124.2	130.5	131.4	138.2	145.7
July.....	125	130	137	124.6	131.5	133.1	139.0	146.6
August.....	126	130	137	124.9	131.8	133.4	142.1	149.3
September.....	126	131	136	125.2	132.3	133.8	142.4	149.4
October.....	127	131	137	125.5	132.6	134.1	142.1	149.7
November.....	127	131	138	125.7	132.9	134.3	142.5	149.5
December.....	127	132	138	126.0	133.3	134.8	142.3	149.5
1956:								
January.....	128	132	140	126.4	133.9	135.3	142.8	150.2
February.....	129	133	140	127.5	134.4	135.9	143.6	151.1
March.....	129	133	140	128.0	134.8	136.4	143.6	151.1
April.....	130	134	140	128.9	135.7	137.3	144.3	151.7
May.....	131	134	141	129.8	136.9	138.4	144.9	152.9
June.....	132	135	143	130.1	137.4	138.9	145.3	153.7
July.....	133	136	144	130.3	138.0	139.9	145.4	154.3
August.....	134	136	144	130.5	138.3	140.2	146.0	154.6
September.....	134	137	145	130.3	138.5	140.5	148.6	156.5
October.....	134	137	145	130.2	138.5	140.5	148.5	156.3
November.....	134	137	145	130.3	138.7	140.7	148.8	156.4
December.....	134	138	145	130.4	138.9	140.9	148.7	156.3

Table 16.—WHOLESALE PRICES OF BUILDING MATERIALS, ANNUAL INDEXES, 1915-56  
[1947-49 = 100]

Year	All building materials	Lumber	Millwork <sup>1</sup>	Paint materials <sup>1</sup>	Prepared paint <sup>1</sup>	Structural steel shapes	Plumbing equipment <sup>1</sup>	Heating equipment <sup>1</sup>	Portland cement	Structural clay products <sup>1</sup>
1915...	27.9	16.2	.....	.....	.....	41.1	.....	.....	40.3	.....
1916...	35.2	18.3	.....	.....	.....	81.1	.....	.....	51.7	.....
1917...	46.0	24.0	.....	.....	.....	120.0	.....	.....	63.5	.....
1918...	51.4	27.7	.....	.....	.....	96.3	.....	.....	74.8	.....
1919...	60.2	37.5	.....	.....	.....	80.9	.....	.....	80.9	.....
1920...	78.2	54.9	.....	.....	.....	90.9	.....	.....	92.7	.....
1921...	50.8	29.5	.....	.....	.....	65.6	.....	.....	87.6	.....
1922...	50.7	32.9	.....	.....	.....	55.7	.....	.....	81.8	.....
1923...	56.6	37.1	.....	.....	.....	77.8	.....	.....	85.3	.....
1924...	53.3	33.0	.....	.....	.....	71.8	.....	.....	83.6	.....
1925...	53.0	33.4	.....	.....	.....	64.3	.....	.....	81.1	.....
1926...	52.1	33.2	44.1	53.0	68.1	62.9	103.2	63.8	79.0	68.1
1927...	49.4	30.9	44.1	49.4	68.0	59.5	92.4	60.2	75.4	64.9
1928...	49.0	30.1	44.0	46.9	67.0	59.9	93.9	63.1	73.1	62.7
1929...	49.7	31.2	44.2	49.2	66.3	61.7	88.8	66.1	70.4	61.0
1930...	46.8	28.5	41.7	44.7	66.4	54.8	84.2	60.8	71.0	57.8
1931...	41.2	23.1	35.0	37.3	61.0	52.2	79.4	58.9	59.1	53.9
1932...	37.2	19.4	34.3	32.4	55.9	50.8	64.6	45.1	58.7	49.7
1933...	40.1	23.5	36.1	35.8	54.4	52.2	63.3	46.4	69.6	51.8
1934...	44.9	28.1	37.6	39.3	58.5	57.0	66.2	51.8	73.6	60.7
1935...	44.4	27.2	37.1	39.6	58.5	57.8	58.0	52.6	73.3	58.8
1936...	45.1	28.9	39.9	40.0	58.5	59.7	66.5	55.1	72.9	57.9
1937...	49.6	33.1	47.7	43.8	58.3	71.1	67.4	59.4	70.4	60.8
1938...	47.0	29.0	43.0	37.2	63.3	69.7	66.7	59.5	71.4	60.4
1939...	47.1	31.0	42.1	38.9	63.3	67.4	66.7	60.4	72.2	61.5
1940...	49.4	34.2	46.1	41.2	64.3	67.4	70.7	59.1	71.8	61.4
1941...	53.7	40.7	52.6	46.7	65.4	67.4	72.2	64.0	72.7	65.2
1942...	57.4	44.2	57.5	54.7	67.6	67.4	79.9	73.0	74.3	69.9
1943...	58.0	47.0	57.9	57.0	67.6	67.4	77.9	68.0	74.2	66.6
1944...	60.1	50.9	59.8	60.2	67.6	67.4	74.8	72.2	75.7	67.3
1945...	61.3	51.5	60.2	62.2	67.6	67.4	74.2	74.3	78.6	75.1
1946...	69.1	59.3	67.6	72.4	70.9	74.4	79.6	84.5	82.3	83.8
1947...	94.0	94.5	87.3	100.6	98.5	84.4	94.7	95.3	91.3	93.3
1948...	104.0	107.3	105.1	102.7	100.3	102.9	102.7	101.2	103.0	101.4
1949...	102.0	98.2	107.6	96.7	101.2	112.7	102.7	103.6	105.8	105.3
1950...	109.5	114.5	114.6	90.9	99.3	121.1	108.2	105.1	108.0	112.6
1951...	119.6	123.6	130.1	108.8	109.0	128.4	122.5	114.6	116.4	121.4
1952...	118.2	120.5	127.0	100.3	110.4	131.1	117.4	113.8	116.4	122.0
1953...	119.9	119.3	131.5	96.2	111.1	136.2	116.0	114.8	122.2	128.1
1954...	120.2	117.3	130.6	96.3	112.8	143.8	118.4	114.3	126.6	133.1
1955...	125.5	124.4	128.7	96.8	114.5	151.9	125.4	115.0	131.4	140.1
1956...	130.6	127.2	129.1	99.6	120.0	162.9	133.9	119.0	139.7	148.0

<sup>1</sup>Data not available prior to 1926.

Table 17.--WHOLESALE PRICES OF BUILDING MATERIALS, MONTHLY INDEXES, 1954-56

[1947-49 = 100]

Year and month	All building materials	Lumber	Millwork	Paint materials	Prepared paint	Structural steel shapes	Plumbing equipment	Heating equipment	Portland cement	Structural clay products
1954:										
Jan. ....	119.6	115.9	131.1	96.5	112.8	141.9	118.2	115.3	124.8	131.9
Feb. ....	119.2	115.5	131.1	95.2	112.8	141.3	118.2	114.8	124.8	131.9
Mar. ....	119.3	115.6	131.1	95.2	112.8	141.3	118.2	114.4	124.8	132.0
Apr. ....	119.0	115.3	130.8	94.7	112.8	141.3	118.2	114.5	124.9	132.0
May ....	118.6	115.0	130.8	95.3	112.8	141.3	118.2	113.9	124.9	132.0
June ....	118.5	115.5	130.8	96.8	112.8	141.3	118.5	113.8	124.9	132.0
July ....	120.5	118.6	130.7	97.6	112.8	141.3	118.5	114.0	128.2	132.0
Aug. ....	120.8	118.7	129.7	97.8	112.8	146.2	118.5	114.1	128.3	132.3
Sept. ....	121.3	119.0	130.2	97.0	112.8	146.2	118.5	114.1	128.3	135.4
Oct. ....	121.7	119.5	130.2	97.2	112.8	146.2	118.7	114.3	128.3	135.4
Nov. ....	121.9	119.6	130.2	96.6	112.8	146.2	118.7	114.3	128.3	135.4
Dec. ....	122.0	119.8	130.3	96.2	112.8	146.2	118.7	114.3	128.3	135.4
1955:										
Jan. ....	122.1	120.0	130.4	95.8	112.8	146.2	118.7	113.9	129.9	135.8
Feb. ....	122.5	121.4	129.0	96.1	113.1	146.2	118.7	113.7	129.9	136.1
Mar. ....	122.8	121.8	128.7	95.9	114.0	146.2	123.0	113.6	130.1	136.5
Apr. ....	123.4	122.9	129.3	96.2	114.8	146.2	123.3	113.6	131.5	136.8
May ....	124.1	124.2	129.3	97.0	114.8	146.2	123.3	113.5	131.5	137.0
June ....	124.1	124.7	128.3	96.9	114.8	146.2	123.2	113.5	131.6	137.3
July ....	125.7	125.1	128.3	97.1	114.8	157.5	123.2	113.6	131.8	141.3
Aug. ....	127.4	126.4	128.3	97.6	114.8	157.5	128.1	116.0	131.8	142.9
Sept. ....	128.5	127.1	128.2	97.6	114.8	157.5	128.1	117.2	131.7	143.9
Oct. ....	128.7	126.8	128.2	97.4	115.0	157.5	129.4	117.3	132.2	144.3
Nov. ....	128.1	126.4	127.9	97.1	115.0	157.5	133.1	117.4	132.3	144.5
Dec. ....	128.3	126.4	128.8	97.4	115.8	157.5	133.1	117.1	132.3	144.6
1956:										
Jan. ....	129.4	127.6	129.2	98.6	117.0	157.5	133.1	117.3	138.5	145.3
Feb. ....	129.6	128.2	129.1	100.4	119.1	157.5	133.1	117.1	138.5	145.6
Mar. ....	130.5	129.9	128.9	101.4	119.1	157.5	133.1	117.1	138.6	145.9
Apr. ....	131.3	130.6	128.9	101.6	119.1	157.5	133.9	117.3	138.9	146.0
May ....	130.8	130.4	129.2	101.2	119.1	157.5	135.0	117.3	138.9	146.1
June ....	130.6	129.6	129.5	99.4	119.1	157.5	134.1	117.4	139.4	146.5
July ....	130.6	128.5	129.7	98.6	119.1	157.5	134.1	117.9	139.8	149.3
Aug. ....	131.5	127.1	129.5	98.3	119.1	170.5	134.1	119.1	139.8	150.1
Sept. ....	131.0	125.2	129.2	97.9	119.1	170.5	133.9	121.0	139.8	150.1
Oct. ....	131.0	123.6	128.6	98.8	122.4	170.5	133.9	121.9	141.4	150.1
Nov. ....	130.8	123.1	128.5	99.4	123.6	170.5	133.9	122.0	141.4	150.3
Dec. ....	130.5	122.4	128.5	99.5	124.1	170.5	133.9	122.1	141.4	150.5



Table 18.--GROSS AVERAGE HOURLY EARNINGS IN CONTRACT CONSTRUCTION, ANNUALLY, 1934-56; MONTHLY, 1954-56<sup>1</sup>

Period	All construction	Building construction							Nonbuilding construction		
		All building contractors	General contractors	Special trades contractors					All non-building	Highway and street	Other non-building
				All special trades	Plumbing and heating	Painting and decorating	Electrical work	Other trades			
ANNUAL AVERAGES											
1934.....		\$0.795									
1935.....		.815									
1936.....		.824									
1937.....		.903									
1938.....		.908									
1939.....		.932									
1940.....		.958	\$0.918	\$1.012	\$0.949	\$1.016	\$1.196				
1941.....		1.010	0.965	1.052	1.005	1.083	1.214				
1942.....		1.148	1.098	1.189	1.133	1.185	1.409				
1943.....		1.252	1.206	1.284	1.238	1.299	1.517				
1944.....		1.319	1.262	1.358	1.313	1.367	1.522				
1945.....		1.379	1.315	1.423	1.382	1.451	1.559				
1946.....	\$1.461 <sup>2</sup>	1.478	1.419	1.544	1.537	1.564	1.683	\$1.485	\$1.361 <sup>2</sup>	\$1.317 <sup>2</sup>	\$1.374 <sup>2</sup>
1947.....	1.654	1.681	1.603	1.772	1.779	1.724	1.930	1.705	1.539	1.454	1.560
1948.....	1.790	1.848	1.766	1.946	1.960	1.925	2.084	1.888	1.639	1.500	1.716
1949.....	1.874	1.935	1.855	2.034	2.037	1.982	2.211	1.979	1.723	1.583	1.820
1950.....	1.982	2.031	1.915	2.119	2.128	2.013	2.322	2.087	1.796	1.683	1.875
1951.....	2.15	2.19	2.05	2.31	2.33	2.20	2.55	2.26	1.98	1.82	2.10
1952.....	2.27	2.31	2.15	2.44	2.44	2.35	2.71	2.39	2.11	1.92	2.25
1953.....	2.43	2.48	2.34	2.59	2.58	2.51	2.84	2.55	2.24	2.07	2.37
1954.....	2.54	2.60	2.47	2.69	2.71	2.62	2.92	2.64	2.31	2.14	2.44
1955.....	2.60	2.66	2.52	2.77	2.80	2.72	2.98	2.71	2.36	2.21	2.50
1956.....	2.73	2.80	2.64	2.92	2.94	2.86	3.18	2.86	2.49	2.33	2.63
MONTHLY AVERAGES											
1954: Jan. ..	2.54	2.58	2.43	2.69	2.68	2.59	2.90	2.65	2.33	2.09	2.46
Feb. ..	2.53	2.59	2.45	2.69	2.68	2.59	2.89	2.65	2.30	2.06	2.43
Mar. ..	2.52	2.59	2.45	2.69	2.69	2.59	2.89	2.64	2.27	2.05	2.41
Apr. ..	2.51	2.57	2.44	2.67	2.69	2.58	2.89	2.63	2.28	2.10	2.41
May ...	2.52	2.58	2.45	2.68	2.69	2.58	2.92	2.63	2.31	2.17	2.43
June ..	2.51	2.57	2.44	2.67	2.70	2.60	2.90	2.62	2.30	2.15	2.44
July ..	2.51	2.57	2.44	2.68	2.70	2.61	2.95	2.62	2.30	2.17	2.43
Aug. ..	2.53	2.60	2.48	2.69	2.71	2.63	2.92	2.64	2.31	2.18	2.44
Sept. ..	2.55	2.62	2.50	2.71	2.73	2.66	2.92	2.65	2.32	2.17	2.47
Oct. ..	2.56	2.62	2.51	2.71	2.72	2.65	2.95	2.65	2.32	2.16	2.47
Nov. ..	2.56	2.63	2.51	2.71	2.72	2.65	2.96	2.66	2.33	2.18	2.47
Dec. ..	2.59	2.64	2.53	2.73	2.77	2.68	2.92	2.66	2.33	2.13	2.47
1955: Jan. ..	2.59	2.64	2.53	2.72	2.78	2.66	2.92	2.65	2.31	2.09	2.45
Feb. ..	2.59	2.64	2.51	2.73	2.75	2.68	2.92	2.68	2.32	2.09	2.47
Mar. ..	2.57	2.62	2.49	2.72	2.75	2.67	2.93	2.66	2.31	2.07	2.48
Apr. ..	2.57	2.63	2.49	2.72	2.76	2.67	2.93	2.67	2.34	2.15	2.49
May ...	2.57	2.63	2.48	2.73	2.77	2.68	2.95	2.68	2.34	2.18	2.49
June ..	2.57	2.64	2.49	2.74	2.78	2.71	2.95	2.68	2.34	2.21	2.47
July ..	2.59	2.66	2.50	2.78	2.83	2.71	2.98	2.72	2.36	2.24	2.48
Aug. ..	2.60	2.67	2.52	2.78	2.81	2.74	2.98	2.73	2.38	2.25	2.51
Sept. ..	2.62	2.69	2.53	2.80	2.83	2.78	3.03	2.73	2.39	2.29	2.50
Oct. ..	2.63	2.70	2.55	2.81	2.83	2.78	3.04	2.74	2.40	2.28	2.51
Nov. ..	2.65	2.71	2.58	2.81	2.83	2.75	3.05	2.74	2.40	2.27	2.52
Dec. ..	2.66	2.72	2.58	2.82	2.82	2.79	3.05	2.77	2.41	2.22	2.56
1956: Jan. ..	2.68	2.74	2.58	2.84	2.85	2.78	3.06	2.79	2.41	2.19	2.57
Feb. ..	2.69	2.75	2.58	2.86	2.86	2.80	3.09	2.80	2.44	2.22	2.58
Mar. ..	2.69	2.75	2.58	2.87	2.88	2.81	3.08	2.81	2.45	2.27	2.57
Apr. ..	2.68	2.75	2.59	2.86	2.88	2.82	3.08	2.81	2.42	2.25	2.56
May ...	2.69	2.76	2.61	2.88	2.91	2.83	3.11	2.81	2.44	2.28	2.59
June ..	2.70	2.78	2.62	2.90	2.92	2.82	3.14	2.84	2.48	2.34	2.61
July ..	2.71	2.79	2.63	2.91	2.95	2.85	3.14	2.84	2.49	2.35	2.62
Aug. ..	2.74	2.81	2.65	2.94	2.97	2.88	3.20	2.87	2.51	2.39	2.63
Sept. ..	2.77	2.84	2.67	2.97	2.98	2.90	3.27	2.89	2.53	2.39	2.67
Oct. ..	2.79	2.86	2.69	2.98	2.99	2.90	3.28	2.91	2.55	2.41	2.69
Nov. ..	2.80	2.87	2.71	3.00	3.01	2.91	3.28	2.92	2.54	2.35	2.70
Dec. ..	2.82	2.89	2.71	3.02	3.03	2.92	3.27	2.95	2.55	2.32	2.71

<sup>1</sup>Figures through 1947 refer only to on-site workers on private projects, and are not available for all components for the 1934-45 period. Beginning with January 1948, the series covers site workers and those employed in off-site construction operations (including pre-assembly and pre-cutting) on both private and public projects.<sup>2</sup>Based on data for the 11 months February-December 1946.

### Section III.—CONSTRUCTION CONTRACT AWARDS

Table 19.—Contract Awards in the 37 Eastern States Reported by the  
F. W. Dodge Corporation, Annually, 1925-56

[Value, in millions of dollars]

Year	Total construc- tion	Building			Engineering		
		Total	Residen- tial	Non- residential	Total	Public works	Utilities
1925.....	6,006	4,949	2,747	2,202	1,057	654	403
1926.....	6,381	5,089	2,671	2,418	1,292	780	512
1927.....	6,303	5,012	2,573	2,439	1,291	973	318
1928.....	6,628	5,226	2,788	2,438	1,402	985	417
1929.....	5,751	4,341	1,916	2,425	1,410	940	470
1930.....	4,523	2,923	1,101	1,822	1,600	970	630
1931.....	3,093	1,952	811	1,141	1,141	881	260
1932.....	1,351	768	280	488	583	521	62
1933.....	1,256	667	249	418	589	504	85
1934.....	1,543	800	249	551	743	632	111
1935.....	1,845	1,160	479	681	685	589	96
1936.....	2,675	1,761	801	960	914	722	192
1937.....	2,913	2,061	905	1,156	852	589	263
1938.....	3,197	2,058	986	1,072	1,139	850	289
1939.....	3,551	2,300	1,334	966	1,251	962	289
1940.....	4,004	2,892	1,597	1,295	1,112	831	281
1941.....	6,007	4,269	1,954	2,315	1,738	1,109	629
1942.....	8,255	5,715	1,818	3,897	2,540	1,302	1,238
1943.....	3,274	2,292	868	1,424	982	471	511
1944.....	1,994	1,247	348	899	747	430	317
1945.....	3,299	2,413	563	1,850	886	483	403
1946.....	7,490	5,858	3,142	2,716	1,632	1,195	437
1947.....	7,760	5,870	3,154	2,716	1,890	1,344	546
1948.....	9,430	7,275	3,608	3,667	2,155	1,627	528
1949.....	10,359	7,883	4,239	3,644	2,476	1,779	697
1950.....	14,501	11,923	6,741	5,182	2,578	1,930	648
1951.....	15,751	13,028	6,205	6,823	2,723	1,824	899
1952.....	16,775	13,367	6,668	6,699	3,408	2,267	1,141
1953.....	17,443	13,435	6,479	6,956	4,008	2,808	1,200
1954.....	19,770	15,629	8,518	7,111	4,141	3,094	1,047
1955.....	23,745	18,682	10,185	8,497	5,063	3,623	1,440
1956.....	<sup>1</sup> 24,413	<sup>1</sup> 18,832	<sup>1</sup> 9,826	9,006	5,580	4,163	1,417

<sup>1</sup> Residential data for 1956 have been revised by the F. W. Dodge Corporation based on new procedures. However, the originally published figures are shown here to maintain comparability with earlier years.

Table 20.--CONTRACT AWARDS FOR PUBLIC CONSTRUCTION, BY OWNERSHIP, ANNUALLY, 1946-56<sup>1</sup>  
[Value, in millions of dollars]

Ownership and type of construction	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956
TOTAL PUBLIC CONSTRUCTION.....	2,230.5	3,118.7	4,577.4	5,336.8	6,576.7	8,434.9	8,924.4	8,472.3	8,254.4	9,000.5	10,372.2
FEDERALLY OWNED.....	576.1	776.6	1,033.2	1,270.6	1,653.4	3,388.5	3,578.5	2,154.2	1,371.1	1,556.0	2,037.4
Residential buildings.....	48.6	60.7	47.2	46.8	15.4	9.0	11.0	15.0	3.9	61.4	128.1
Nonresidential buildings.....	154.9	344.6	413.9	616.0	1,056.9	2,111.2	2,377.3	1,525.2	811.4	885.5	909.4
Educational.....	4.6	1.9	1.0	1.0	3.1	16.1	44.2	13.4	14.9	21.6	23.7
Hospital and institutional.....	14.3	102.0	196.3	149.0	128.9	83.2	53.2	29.7	72.9	77.5	43.9
Administrative and service.....	9.7	32.6	29.8	88.8	58.2	49.9	43.4	45.7	38.8	66.7	87.3
Other nonresidential buildings...	126.3	208.1	186.8	377.2	866.7	1,962.0	2,236.5	1,436.4	684.8	719.7	754.5
Airfield buildings.....	(2)	(2)	(2)	(2)	8.5	73.3	66.8	71.9	90.9	103.8	72.1
Troop housing.....	(2)	(2)	(2)	(2)	2.6	232.3	286.4	60.7	68.7	54.1	122.7
Warehouses.....	(2)	(2)	(2)	(2)	45.4	81.9	279.9	64.7	82.3	84.0	63.2
All other.....	(2)	(2)	(2)	(2)	810.2	1,574.5	1,603.4	1,239.1	442.9	477.8	496.5
Airfields.....	15.1	12.2	4.4	9.1	9.5	264.0	117.3	103.9	153.1	157.4	155.7
Conservation and development.....	290.2	307.7	494.9	417.4	321.5	397.3	292.0	225.5	207.4	271.9	511.0
Highways.....	21.6	24.5	27.8	46.6	35.6	71.4	89.5	52.8	62.2	58.5	91.9
Electric power.....	9.0	7.0	22.8	103.0	156.6	314.0	517.7	156.8	66.8	43.5	177.5
All other federally owned.....	36.7	19.9	22.2	31.7	57.9	221.6	173.7	74.9	66.3	77.8	63.8
STATE AND LOCALLY OWNED.....	1,654.4	2,342.1	3,544.2	4,066.2	4,923.3	5,046.4	5,345.9	6,318.1	6,883.3	7,444.5	8,334.8
Residential buildings.....	94.5	171.5	190.0	357.5	431.9	638.3	613.3	331.5	254.6	210.1	253.2
Nonresidential buildings.....	236.2	532.3	1,179.0	1,515.1	1,887.7	1,960.5	1,948.0	2,259.9	2,865.9	2,842.0	3,202.8
Educational.....	124.5	315.1	705.0	853.3	1,180.5	1,362.4	1,350.9	1,629.3	2,077.9	2,107.2	2,289.0
Hospital and institutional.....	34.4	67.3	200.2	339.9	337.5	328.4	279.4	237.3	241.6	185.9	278.9
Administrative and service.....	17.8	46.9	105.5	117.6	158.8	124.3	168.2	147.8	253.5	263.0	320.8
Other nonresidential buildings...	61.5	103.0	168.3	204.3	210.9	145.4	149.5	245.5	292.9	286.9	314.1
Highways.....	922.5	1,083.0	1,407.5	1,401.5	1,780.2	1,671.3	1,997.9	2,659.7	2,684.7	2,933.5	3,211.6
Sewer and water systems.....	268.4	347.1	529.0	558.3	585.4	573.6	588.7	755.5	765.4	896.5	1,100.0
Sewer.....	140.3	188.8	289.0	312.4	357.5	344.6	362.1	472.8	472.7	501.9	658.9
Water.....	128.1	158.3	240.0	245.9	227.9	229.0	266.6	282.7	292.7	393.6	441.1
Public service enterprises.....	88.4	122.5	154.0	132.9	145.8	133.6	115.8	155.5	172.3	378.0	336.5
Electric power.....	35.2	58.1	46.8	58.4	47.7	74.5	51.5	72.4	105.3	247.4	227.2
Other.....	53.2	64.4	107.2	74.5	98.1	59.1	64.3	83.1	67.0	130.6	109.3
Conservation and development.....	22.6	25.8	46.0	52.1	51.3	39.0	40.2	65.5	67.1	117.2	139.3
All other State and locally owned...	19.8	59.9	38.7	48.8	41.0	30.1	42.0	90.5	73.3	68.2	91.4

<sup>1</sup>Includes major force-account projects started, principally by TVA and State highway departments.

<sup>2</sup>Not available separately; included in total for other nonresidential buildings.

Table 21.--CONTRACT AWARDS FOR PUBLIC CONSTRUCTION, BY OWNERSHIP, MONTHLY, 1952-56<sup>1</sup>  
[Value, in millions of dollars]

Ownership and type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	1952												
TOTAL PUBLIC CONSTRUCTION.....	532.0	496.0	694.5	830.3	740.6	1,062.9	632.3	851.3	823.7	635.8	644.4	990.6	8,924.4
FEDERALLY OWNED.....	202.9	164.6	204.8	296.2	203.9	515.4	137.1	374.4	428.9	198.1	278.9	573.3	3,578.5
Residential buildings.....	.3	.3	.2	.5	.7	2.1	.1	3.4	1.2	1.0	.8	.4	11.0
Nonresidential buildings.....	99.3	120.9	153.2	175.3	157.0	383.3	100.8	342.3	359.9	112.1	202.5	170.7	2,377.3
Educational.....	2.7	2.1	1.9	4.4	1.4	9.2	5.6	1.5	3.3	3.6	4.1	4.4	44.2
Hospital and institutional.....	1.7	9.1	7.0	.9	2.9	3.5	.8	22.3	.1	2.5	1.1	1.3	53.2
Administrative and service.....	2.2	1.7	3.3	.7	3.4	13.1	2.0	1.5	5.4	3.2	3.1	3.8	43.4
Other nonresidential buildings...	92.7	108.0	141.0	169.3	149.3	357.5	92.4	317.0	351.1	102.8	194.2	161.2	2,236.5
Airfield buildings.....	.9	2.0	5.9	5.8	2.9	9.4	4.0	7.6	1.7	8.1	7.2	11.3	66.8
Troop housing.....	25.0	24.0	27.2	37.8	23.2	58.7	20.5	18.3	11.9	7.5	17.8	14.5	286.4
Warehouses.....	28.2	32.5	32.2	28.3	40.0	44.7	2.9	10.6	12.0	19.9	15.4	13.2	279.9
All other.....	38.6	49.5	75.7	97.4	83.2	244.7	65.0	280.5	325.5	67.3	153.8	122.2	1,603.4
Airfields.....	8.3	3.4	8.0	3.8	8.4	24.6	4.5	6.1	8.2	11.8	18.1	12.1	117.3
Conservation and development.....	29.6	24.5	15.3	51.6	10.7	45.3	3.7	7.9	27.6	31.6	25.3	18.9	292.0
Highways.....	4.9	5.3	7.3	6.1	8.8	13.4	4.7	3.4	7.5	14.0	5.3	8.8	89.5
Electric power.....	48.4	4.4	12.7	49.7	7.6	8.7	14.5	1.6	9.6	3.0	10.9	346.6	517.7
All other federally owned.....	12.1	5.8	8.1	9.2	10.7	38.0	8.8	9.7	14.9	24.6	16.0	15.8	173.7

<sup>1</sup>Includes major force-account projects started, principally by TVA and State highway departments.

Table 21.—CONTRACT AWARDS FOR PUBLIC CONSTRUCTION, BY OWNERSHIP, MONTHLY, 1952-56—Continued<sup>1</sup>

[Value, in millions of dollars]

Ownership and type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	1952—Continued												
STATE AND LOCALLY OWNED.....	329.1	331.4	489.7	534.1	536.7	537.5	495.2	476.9	394.8	437.7	365.5	417.3	5,345.9
Residential buildings.....	51.3	65.5	148.3	87.2	51.8	23.9	23.4	18.4	33.3	27.9	29.8	52.5	613.3
Nonresidential buildings.....	115.1	119.2	145.3	177.5	190.9	206.2	191.3	161.4	138.0	177.6	145.5	180.0	1,946.0
Educational.....	82.0	94.5	107.2	127.1	133.2	127.2	120.7	123.0	103.8	114.4	88.8	129.0	1,350.9
Hospital and institutional.....	20.0	10.4	18.2	28.5	34.9	35.9	36.4	11.6	11.7	21.6	36.0	14.2	279.4
Administrative and service.....	3.4	4.7	13.2	13.0	12.5	22.1	19.9	9.4	10.0	29.3	12.5	18.2	168.2
Other nonresidential buildings.....	9.7	9.6	6.7	8.9	10.3	21.0	14.3	17.4	12.5	12.3	8.2	18.6	149.5
Highways.....	104.3	104.7	133.9	209.6	212.7	234.2	204.1	221.3	160.9	147.8	130.8	133.6	1,997.9
Sewer and water systems.....	44.0	31.7	53.7	45.5	53.4	51.8	55.4	60.5	36.5	65.8	49.5	40.9	588.7
Sewer.....	20.6	20.5	23.1	33.1	26.7	35.5	41.3	36.4	25.5	42.2	34.9	22.3	362.1
Water.....	23.4	11.2	30.6	12.4	26.7	16.3	14.1	24.1	11.0	23.6	14.6	18.6	226.6
Public service enterprises.....	10.8	5.3	4.4	8.4	16.9	13.4	10.8	9.1	17.9	10.1	4.1	4.6	115.8
Electric power.....	4.2	3.8	2.8	2.3	11.3	2.5	4.1	4.0	10.7	2.4	2.0	1.4	51.5
Other.....	6.6	1.5	1.6	6.1	5.6	10.9	6.7	5.1	7.2	7.7	2.1	3.2	64.3
Conservation and development.....	1.4	3.4	2.2	3.4	6.1	3.4	5.9	2.9	3.9	3.9	1.9	1.8	40.2
All other State and locally owned.....	2.2	1.6	1.9	2.5	4.9	4.6	4.3	3.3	4.3	4.6	3.9	3.9	42.0
	1953												
TOTAL PUBLIC CONSTRUCTION.....	531.6	445.8	642.1	829.3	764.3	1,298.4	686.0	667.8	637.6	751.1	550.8	667.5	8,472.3
FEDERALLY OWNED.....	203.3	143.9	124.2	247.8	140.5	678.1	85.9	90.0	68.0	240.1	67.7	64.7	2,154.2
Residential buildings.....	2.3	4.8	.6	3.0	.6	3.4	( <sup>2</sup> )	( <sup>2</sup> )	.1	( <sup>2</sup> )	.1	.1	15.0
Nonresidential buildings.....	155.7	116.9	51.5	197.3	86.1	569.0	47.2	42.3	38.0	152.7	41.9	26.6	1,525.2
Educational.....	.2	( <sup>2</sup> )	.4	1.3	1.7	4.3	1.5	.1	2.3	1.3	( <sup>2</sup> )	.3	13.4
Hospital and institutional.....	5.0	.1	1.1	.4	6.7	1.9	.6	.4	6.4	.7	2.9	3.5	29.7
Administrative and service.....	4.8	1.8	2.0	4.2	4.5	4.5	1.7	2.2	2.5	14.4	1.2	1.9	45.7
Other nonresidential buildings.....	145.7	115.0	48.0	191.4	73.2	558.3	43.4	39.6	26.8	136.3	37.8	20.9	1,436.4
Airfield buildings.....	7.3	6.7	2.3	11.8	10.1	17.7	1.1	2.2	3.9	.2	7.5	1.1	71.9
Troop housing.....	14.1	1.7	15.3	6.7	4.6	9.5	2.4	3.1	.8	1.1	1.0	.4	60.7
Warehouses.....	9.1	1.3	3.0	5.0	5.3	8.4	24.4	.2	3.4	2.8	1.0	.8	64.7
All other.....	115.2	105.3	27.4	167.9	53.2	522.7	15.5	34.1	18.7	132.2	28.3	18.6	1,239.1
Airfields.....	9.9	3.5	16.5	21.1	4.9	9.7	11.4	9.6	8.0	.6	6.0	2.7	103.9
Conservation and development.....	21.4	4.4	41.3	13.1	18.9	33.7	11.8	20.1	11.9	27.9	8.7	11.3	225.5
Highways.....	4.5	.4	3.6	2.5	7.2	7.2	6.7	3.9	7.5	5.4	2.8	.9	52.9
Electric power.....	3.4	8.7	4.7	3.0	11.8	40.1	5.3	10.7	.6	47.2	1.2	20.1	156.8
All other federally owned.....	6.1	5.2	5.7	7.8	11.0	15.0	3.5	3.4	1.9	6.3	6.0	3.0	74.9
STATE AND LOCALLY OWNED.....	328.3	301.9	517.9	581.5	623.8	620.3	600.1	577.8	569.6	511.0	483.1	602.8	6,318.1
Residential buildings.....	21.9	41.3	80.9	38.7	26.4	25.0	12.6	13.9	31.8	11.0	16.0	12.0	331.5
Nonresidential buildings.....	125.3	121.1	168.9	211.3	207.6	176.6	218.5	199.8	179.8	220.6	195.4	235.0	2,259.9
Educational.....	86.6	89.3	134.2	159.4	165.2	149.8	159.0	125.4	140.7	144.3	124.3	156.1	1,629.3
Hospital and institutional.....	11.9	10.6	13.8	11.4	10.7	7.5	11.8	43.9	18.1	26.6	27.3	43.7	237.3
Administrative and service.....	5.1	5.5	4.2	11.8	11.1	6.9	14.8	17.4	7.4	24.3	20.1	19.2	147.8
Other nonresidential buildings.....	21.7	20.7	16.7	28.7	20.6	12.4	32.9	13.1	13.6	25.4	23.7	16.0	245.5
Highways.....	113.6	96.3	197.7	257.2	274.7	288.6	251.3	261.0	236.6	205.0	197.1	280.6	2,659.7
Sewer and water systems.....	38.5	31.6	47.3	55.4	87.6	104.1	71.7	71.2	94.7	46.0	52.9	54.5	755.5
Sewer.....	21.2	16.2	21.3	37.0	61.2	87.2	46.7	28.2	63.4	29.6	23.0	37.8	472.8
Water.....	17.3	15.4	26.0	18.4	26.4	16.9	25.0	43.0	31.3	16.4	29.9	16.7	282.7
Public service enterprises.....	22.7	5.4	8.3	6.6	10.8	8.6	27.6	8.6	14.7	16.1	12.7	13.4	155.5
Electric power.....	14.7	1.6	3.3	5.1	5.5	3.6	16.1	2.3	3.2	11.0	2.4	3.6	72.4
Other.....	8.0	3.8	5.0	1.5	5.3	5.0	11.5	6.3	11.5	5.1	10.3	9.8	83.1
Conservation and development.....	3.3	3.0	4.4	4.8	6.3	9.1	8.2	12.3	4.1	4.5	2.6	2.9	65.5
All other State and locally owned.....	3.0	3.2	10.4	7.5	10.4	8.3	10.2	11.0	7.9	7.8	6.4	4.4	90.5

<sup>1</sup>Includes major force-account projects started, principally by TVA and State highway departments.<sup>2</sup>Less than \$50,000.



Table 21.—CONTRACT AWARDS FOR PUBLIC CONSTRUCTION, BY OWNERSHIP, MONTHLY, 1952-56—Continued<sup>1</sup>

[Value, in millions of dollars]

Ownership and type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	1954												
TOTAL PUBLIC CONSTRUCTION.....	521.1	451.0	642.9	777.7	693.6	928.9	813.3	657.4	723.5	734.7	565.4	744.9	8,254.4
FEDERALLY OWNED.....	102.3	64.3	90.8	199.9	110.2	190.5	94.5	74.9	109.2	137.6	92.7	104.2	1,371.1
Residential buildings.....	.1	.4	.5	2.4	( <sup>2</sup> )	.2	( <sup>2</sup> )	( <sup>2</sup> )	.3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	3.9
Nonresidential buildings.....	74.2	17.1	42.4	140.2	64.2	119.7	66.1	43.0	56.3	82.1	62.9	43.2	811.4
Educational.....	6.1	.2	.3	.1	1.6	.4	1.2	.2	1.6	3.1	( <sup>2</sup> )	.1	14.9
Hospital and institutional.....	.6	6.3	4.2	1.4	13.6	15.3	.5	1.8	4.2	8.1	16.5	.4	72.9
Administrative and service.....	2.1	1.7	3.1	3.0	2.3	7.6	3.3	2.9	4.7	2.5	4.1	1.5	38.8
Other nonresidential buildings.....	65.4	8.9	34.8	135.7	46.7	96.4	61.1	38.1	45.8	68.4	42.3	41.2	694.8
Airfield buildings.....	12.6	1.4	10.5	17.1	5.6	13.5	3.6	.5	1.7	6.4	7.7	10.1	90.9
Troop housing.....	2.5	1.4	1.0	2.9	8.5	6.0	.8	3.2	8.5	29.8	.9	3.2	68.7
Warehouses.....	2.6	.5	5.8	24.4	6.1	7.1	25.1	3.4	1.6	3.0	.4	2.3	82.3
All other.....	47.5	5.6	17.5	91.3	26.5	69.8	31.6	31.0	34.0	29.2	33.3	25.6	442.9
Airfields.....	11.6	19.2	8.2	20.3	16.5	14.6	12.5	11.2	14.2	11.9	7.0	5.9	153.1
Conservation and development.....	4.8	9.0	17.5	23.3	16.9	29.9	6.6	7.5	24.3	32.3	16.0	19.3	207.4
Highways.....	2.5	1.0	6.9	5.0	2.6	10.9	5.0	7.2	5.5	6.2	2.7	6.7	62.2
Electric power.....	3.6	13.5	6.9	4.6	3.9	6.2	.7	1.8	5.0	3.6	1.4	15.6	66.8
All other federally owned.....	5.5	4.1	8.4	4.1	6.1	9.0	3.6	4.2	3.6	1.5	2.7	13.5	66.3
STATE AND LOCALLY OWNED.....	418.8	386.7	552.1	577.8	583.4	738.4	718.8	582.5	614.3	597.1	472.7	640.7	6,883.3
Residential buildings.....	18.1	12.6	28.0	14.5	18.5	42.6	37.5	22.1	28.7	10.1	12.1	9.8	254.6
Nonresidential buildings.....	174.7	185.1	265.6	226.8	243.4	294.4	292.5	247.8	261.3	225.1	203.0	246.2	2,865.9
Educational.....	125.5	135.4	174.5	171.1	196.4	214.5	206.9	185.4	177.8	165.6	153.0	172.8	2,077.9
Hospital and institutional.....	14.2	28.3	11.9	19.1	18.5	20.2	37.4	18.7	22.4	14.1	15.5	21.3	241.6
Administrative and service.....	22.4	9.7	13.8	19.3	16.2	37.1	20.3	24.8	39.2	23.0	12.9	14.8	253.5
Other nonresidential buildings.....	12.6	11.7	65.4	17.3	13.3	22.6	27.9	18.9	21.9	22.4	21.6	37.3	232.9
Highways.....	169.1	142.5	171.0	223.4	225.5	299.8	292.7	226.0	240.9	243.9	179.7	270.2	2,684.7
Sewer and water systems.....	42.1	36.8	62.3	81.6	71.4	71.7	71.2	59.5	62.6	91.0	53.0	62.2	765.4
Sewer.....	25.2	18.2	45.4	54.0	35.8	47.4	46.4	36.3	37.1	64.3	29.3	33.3	472.7
Water.....	16.9	18.6	16.9	27.6	35.6	24.3	24.8	23.2	25.5	26.7	23.7	28.9	292.7
Public service enterprises.....	8.0	5.1	15.0	17.2	11.7	18.4	10.7	15.2	10.3	9.3	13.2	38.2	172.3
Electric power.....	3.0	1.9	9.8	15.3	4.2	6.0	7.1	12.3	3.3	3.4	11.6	27.4	105.3
Other.....	5.0	3.2	5.2	1.9	7.5	12.4	3.6	2.9	7.0	5.9	1.6	10.8	67.0
Conservation and development.....	3.2	1.6	3.7	7.6	6.1	5.7	6.5	5.1	5.0	10.1	5.6	6.9	67.1
All other State and locally owned.....	3.6	3.0	6.5	6.7	6.8	5.8	7.7	6.8	5.5	7.6	6.1	7.2	73.3
1955													
TOTAL PUBLIC CONSTRUCTION.....	534.1	523.6	789.2	783.6	815.5	1,099.9	709.6	723.4	741.0	683.7	660.5	936.4	9,000.5
FEDERALLY OWNED.....	95.7	95.1	153.7	125.4	121.3	327.3	48.4	60.7	130.5	105.0	107.7	185.2	1,556.4
Residential buildings.....	( <sup>2</sup> )	8.3	( <sup>2</sup> )	.1	.8	12.7	1.2	1.3	.1	.8	2.6	33.5	61.4
Nonresidential buildings.....	50.6	45.4	105.6	79.0	67.9	240.3	28.9	36.7	67.2	42.1	39.9	81.9	895.5
Educational.....	.3	.3	.1	1.2	.8	.9	.8	.2	4.6	.1	1.4	10.9	21.8
Hospital and institutional.....	6.8	.4	5.8	6.7	3.0	44.2	1.2	4.0	3.3	1.1	.3	.7	77.5
Administrative and service.....	3.2	1.9	4.9	3.5	4.7	9.1	1.4	2.4	20.9	3.8	4.1	6.2	66.7
Other nonresidential buildings.....	39.7	42.8	94.8	67.6	59.4	186.1	25.5	30.1	38.4	37.1	34.1	64.1	719.7
Airfield buildings.....	15.2	4.9	18.0	10.6	10.0	28.7	1.5	.5	1.8	3.4	4.3	4.9	103.8
Troop housing.....	3.8	.6	6.5	11.0	5.8	8.6	.6	3.1	1.5	2.8	3.5	6.3	54.1
Warehouses.....	1.5	6.3	7.5	6.4	6.3	25.8	7.8	9.6	2.9	2.8	2.4	4.7	86.0
All other.....	19.2	31.0	62.8	39.6	37.3	123.0	15.6	16.9	32.2	28.1	23.9	48.2	477.0
Airfields.....	22.6	10.8	16.7	18.6	9.7	18.4	3.1	3.6	4.8	9.2	15.3	24.6	157.4
Conservation and development.....	8.9	21.7	12.2	14.7	27.0	29.3	9.4	8.9	49.0	42.4	24.6	23.8	271.9
Highways.....	2.8	2.9	6.0	5.6	4.8	10.4	4.5	4.8	6.3	4.2	2.4	3.8	58.5
Electric power.....	1.3	3.1	9.0	3.2	5.6	3.3	.5	1.8	.7	2.6	3.5	8.9	43.5
All other federally owned.....	9.5	2.9	4.2	4.2	5.5	12.9	.8	3.6	2.4	3.7	19.4	8.7	77.1

<sup>1</sup>Includes major force-account projects started, principally by TVA and State highway departments.<sup>2</sup>Less than \$50,000.



Table 21.—CONTRACT AWARDS FOR PUBLIC CONSTRUCTION, BY OWNERSHIP, MONTHLY, 1952-56—Continued<sup>1</sup>

[Value, in millions of dollars]

Ownership and type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	1955—Continued												
STATE AND LOCALLY OWNED.....	438.4	428.5	635.5	658.2	694.2	772.6	661.2	662.7	610.5	578.7	552.8	751.2	7,444.5
Residential buildings.....	7.9	16.6	16.5	14.5	27.2	19.4	18.1	27.5	17.7	18.7	14.3	11.7	210.1
Nonresidential buildings.....	223.6	183.6	260.1	246.5	249.4	258.9	284.4	218.8	207.4	230.6	192.3	286.4	2,842.0
Educational.....	132.1	137.6	206.0	199.7	186.2	182.8	215.7	146.2	159.7	165.8	139.3	236.1	2,107.2
Hospital and institutional.....	19.6	11.9	10.0	15.6	24.6	16.2	15.0	13.8	16.1	19.9	10.1	13.1	185.9
Administrative and service.....	28.0	15.1	24.5	14.0	18.2	27.7	22.5	35.5	13.2	27.3	13.8	23.2	263.0
Other nonresidential buildings.....	43.9	19.0	19.6	17.2	20.4	32.2	31.2	23.3	18.4	17.6	29.1	14.0	285.9
Highways.....	121.4	161.0	248.3	268.7	238.8	349.7	255.8	282.0	242.1	215.1	229.9	320.7	2,983.5
Sewer and water systems.....	63.4	52.1	72.2	73.1	64.5	76.4	65.2	82.6	102.8	71.3	83.5	88.4	895.5
Sewer.....	35.8	28.1	44.0	46.3	37.4	49.1	38.7	43.2	65.8	35.6	24.7	53.2	501.9
Water.....	27.6	24.0	28.2	26.8	27.1	27.3	26.5	39.4	37.0	35.7	58.8	35.2	393.6
Public service enterprises.....	9.6	6.7	25.8	40.1	99.4	48.6	25.1	28.9	13.9	24.4	23.6	31.9	378.0
Electric power.....	4.3	3.9	2.0	34.2	85.0	36.7	4.7	21.1	9.7	15.4	18.5	11.9	247.4
Other.....	5.3	2.8	23.8	5.9	14.4	11.9	20.4	7.8	4.2	9.0	5.1	20.0	130.6
Conservation and development.....	6.8	3.5	8.1	9.3	10.2	13.4	6.0	17.7	16.5	13.4	4.3	8.0	117.2
All other State and locally owned.....	5.7	5.0	4.5	6.0	4.7	6.2	6.6	5.2	10.1	5.2	4.9	4.1	68.2
1956													
TOTAL PUBLIC CONSTRUCTION.....	807.6	649.0	890.0	930.6	856.1	1,102.8	1,100.1	836.3	769.5	837.9	769.4	823.9	10,372.2
FEDERALLY OWNED.....	114.6	119.6	191.3	220.2	169.7	344.1	184.9	111.6	134.1	151.9	119.0	176.4	2,037.4
Residential buildings.....	3.0	12.7	20.1	9.9	9.3	15.7	6.8	1.0	19.6	8.9	1.2	19.9	128.1
Nonresidential buildings.....	48.3	39.8	88.3	119.7	84.0	176.0	46.3	63.9	37.4	97.6	57.3	50.8	909.4
Educational.....	.2	( <sup>2</sup> )	3.0	2.9	.5	4.8	2.3	.7	.3	6.7	.9	1.4	23.7
Hospital and institutional.....	5.5	.3	4.5	3.5	10.9	5.2	3.4	1.7	.5	6.8	.5	1.1	43.9
Administrative and service.....	2.8	4.2	8.4	6.5	17.5	22.1	6.3	3.5	4.1	5.1	3.0	3.8	87.3
Other nonresidential buildings.....	39.8	35.3	72.4	106.8	55.1	143.9	34.3	58.0	32.5	79.0	52.9	44.5	754.5
Airfield buildings.....	11.9	7.2	8.4	4.4	6.6	8.8	4.1	3.9	5.6	1.8	6.4	3.0	72.1
Troop housing.....	10.9	9.0	1.6	8.1	1.2	40.1	6.1	1.8	7.2	20.3	4.7	11.7	122.7
Warehouses.....	1.2	1.3	2.5	32.6	4.9	4.0	4.5	1.6	3.8	2.0	1.2	3.6	63.2
All other.....	15.8	17.8	59.9	61.7	42.4	91.0	19.6	50.7	15.9	54.9	40.6	26.2	496.5
Airfields.....	15.4	17.1	7.5	17.2	7.7	17.7	6.1	7.5	5.2	4.7	21.6	28.0	155.7
Conservation and development.....	41.1	29.2	66.9	53.3	28.7	41.7	54.8	22.6	55.7	27.9	26.5	62.6	511.0
Highways.....	2.2	8.4	2.9	4.8	6.6	17.4	8.6	5.8	10.0	9.3	8.8	7.1	91.9
Electric power.....	2.0	5.5	2.1	5.0	28.2	64.3	58.3	2.9	1.6	1.6	2.1	3.9	177.5
All other federally owned.....	2.6	6.9	3.5	10.3	5.2	11.3	4.0	7.9	4.6	1.9	1.5	4.1	63.8
STATE AND LOCALLY OWNED.....	693.0	528.4	698.7	710.4	686.4	758.7	915.2	724.7	635.4	686.0	650.4	647.5	8,334.8
Residential buildings.....	10.5	22.0	38.8	18.3	21.1	22.7	21.4	12.3	31.7	23.0	17.6	13.8	253.2
Nonresidential buildings.....	254.7	185.9	278.5	295.3	291.8	287.4	284.3	286.6	259.8	252.8	253.5	272.2	3,202.8
Educational.....	192.8	145.1	215.4	204.1	205.9	184.1	199.2	192.9	173.7	175.0	189.3	211.5	2,289.0
Hospital and institutional.....	35.3	9.3	11.5	23.5	31.0	27.9	24.1	15.5	43.4	28.2	15.3	13.9	278.9
Administrative and service.....	10.3	17.4	32.6	30.6	21.8	40.1	26.1	54.2	16.1	27.7	21.0	22.9	320.8
Other nonresidential buildings.....	16.3	14.1	19.0	37.1	33.1	35.3	34.9	24.0	26.6	21.9	27.9	23.9	314.1
Highways.....	246.3	234.3	279.0	265.3	249.1	305.1	349.3	271.9	223.6	269.1	278.1	240.5	3,211.6
Sewer and water systems.....	143.7	57.2	73.5	89.6	78.3	104.1	125.5	103.8	84.6	93.7	66.2	80.8	1,100.0
Sewer.....	114.6	30.5	42.9	51.3	45.0	60.1	49.3	74.9	54.7	50.3	36.2	49.1	658.9
Water.....	29.1	26.7	30.6	38.3	33.3	44.0	76.2	28.9	29.9	43.4	29.0	31.7	441.1
Public service enterprises.....	16.9	14.5	8.0	19.3	16.8	23.4	111.6	26.0	17.6	26.0	25.2	31.2	336.5
Electric power.....	15.4	5.7	2.6	12.4	7.9	8.6	103.6	15.1	9.0	17.8	17.9	11.2	227.2
Other.....	1.5	8.8	5.4	6.9	8.9	14.8	8.0	10.9	8.6	8.2	7.3	20.0	109.3
Conservation and development.....	13.8	11.5	9.0	14.7	20.0	9.0	11.9	14.5	12.1	12.9	5.8	4.1	139.3
All other State and locally owned.....	7.1	3.0	11.9	7.9	9.3	7.0	11.2	9.6	6.0	8.5	5.0	4.9	91.4

<sup>1</sup>Includes major force-account projects started, principally by TVA and State highway departments.<sup>2</sup>Less than \$50,000.

Table 22.--CONTRACT AWARDS FOR STATE AND LOCALLY OWNED PROJECTS, MONTHLY, 1946-51

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1946													
STATE AND LOCALLY OWNED.....	53.1	59.9	110.9	131.8	162.0	169.8	165.5	189.8	195.3	163.6	131.4	121.3	1,654.4
Residential buildings.....	.9	.5	2.5	3.2	4.7	10.4	12.4	6.1	25.1	13.3	6.4	9.0	94.5
Nonresidential buildings.....	10.8	9.0	16.8	13.2	25.0	23.5	22.8	30.5	24.6	20.4	22.0	19.6	238.2
Educational.....	5.1	4.5	8.9	8.0	12.9	11.8	13.3	16.2	12.7	8.8	10.7	11.6	124.5
Hospital and institutional.....	1.3	2.5	2.7	2.1	3.8	3.7	2.9	3.9	2.7	3.5	4.0	1.3	34.4
Administrative and service.....	1.5	.3	2.6	.7	1.6	1.0	.4	2.2	.9	1.2	4.7	.7	17.8
Other nonresidential buildings <sup>1</sup> .....	2.9	1.7	2.6	2.4	6.7	7.0	6.2	8.2	8.3	6.9	2.6	6.0	61.5
Highways.....	30.4	29.1	52.9	88.8	106.5	111.6	100.6	109.6	89.6	88.9	58.5	56.0	922.5
Sewer and water systems.....	7.4	13.2	32.6	13.5	19.5	18.7	20.7	32.0	40.3	20.6	24.6	25.3	268.4
Sewer.....	2.8	8.6	10.5	6.7	11.6	13.5	13.9	19.0	22.7	10.4	12.3	8.3	140.3
Water.....	4.6	4.6	22.1	6.8	7.9	5.2	6.8	13.0	17.6	10.2	12.3	17.0	128.1
Public service enterprises.....	3.0	6.5	3.2	10.8	2.3	4.0	3.5	3.7	11.0	16.4	15.1	8.9	88.4
Electric power.....	2.6	1.4	3.1	1.4	1.5	2.3	2.7	2.4	5.1	4.3	4.7	3.7	35.2
Other <sup>2</sup> .....	.4	5.1	.1	9.4	.8	1.7	.8	1.3	5.9	12.1	10.4	5.2	53.2
Conservation and development.....	.4	1.4	2.5	1.3	3.1	1.2	2.7	3.6	1.9	1.5	2.1	.9	22.6
All other State and locally owned <sup>3</sup> .....	.2	.2	.4	1.0	.9	.4	2.8	4.3	2.8	2.5	2.7	1.6	19.8
1947													
STATE AND LOCALLY OWNED.....	120.2	104.0	159.1	194.8	229.2	204.8	218.1	222.2	220.7	235.2	248.0	185.8	2,342.1
Residential buildings.....	14.2	16.9	9.6	6.7	28.3	14.1	8.1	7.8	19.5	16.4	12.8	17.1	171.5
Nonresidential buildings.....	26.6	16.0	32.7	30.2	44.4	45.7	46.7	59.6	54.0	59.0	62.1	55.3	532.3
Educational.....	9.2	8.6	20.6	17.0	23.4	32.7	29.4	33.6	31.8	39.8	37.2	31.8	315.1
Hospital and institutional.....	11.9	1.4	2.8	4.1	6.0	1.6	3.4	3.0	6.9	6.3	10.5	9.4	67.3
Administrative and service.....	.7	2.5	2.9	3.9	3.8	3.3	4.6	3.6	5.0	6.4	4.4	5.8	46.9
Other nonresidential buildings <sup>1</sup> .....	4.8	3.5	6.4	5.2	11.2	8.1	9.3	19.4	10.3	6.5	10.0	8.3	103.0
Highways.....	41.1	49.9	68.4	118.9	105.3	107.1	114.7	112.5	105.9	102.3	73.2	83.7	1,083.0
Sewer and water systems.....	18.7	13.7	28.0	19.0	27.6	24.4	26.0	28.2	21.8	33.5	88.0	18.2	347.1
Sewer.....	9.2	9.5	7.9	11.9	18.5	17.2	14.1	17.1	14.8	14.8	45.1	9.2	188.8
Water.....	9.5	4.2	20.1	7.1	9.1	7.2	11.9	11.1	7.5	18.7	42.9	9.0	158.3
Public service enterprises.....	13.4	3.7	14.7	14.4	14.3	6.8	15.6	5.2	13.3	11.5	4.7	4.9	122.5
Electric power.....	9.5	2.8	5.3	4.3	4.4	4.3	4.5	2.6	10.4	4.4	3.0	2.6	56.1
Other <sup>2</sup> .....	3.9	.9	9.4	10.1	9.9	2.5	11.1	2.6	2.9	7.1	1.7	2.3	64.4
Conservation and development.....	3.5	.9	3.4	2.9	1.8	2.0	1.2	2.0	1.5	4.5	1.3	.8	25.8
All other State and locally owned <sup>3</sup> .....	2.7	2.9	2.3	2.7	7.5	4.7	5.8	6.9	4.7	8.0	5.9	5.8	59.9
1948													
STATE AND LOCALLY OWNED.....	178.0	194.7	232.4	292.9	333.6	313.7	394.0	354.3	337.6	330.2	275.6	307.2	3,544.2
Residential buildings.....	13.4	1.4	2.0	7.1	22.1	3.5	22.2	12.4	20.6	35.0	42.9	7.4	190.0
Nonresidential buildings.....	58.6	60.5	72.5	103.0	91.3	110.3	139.1	109.9	116.4	114.8	92.2	110.4	1,179.0
Educational.....	35.8	39.9	45.2	61.2	60.8	60.5	92.6	61.8	68.0	57.7	54.0	67.5	705.0
Hospital and institutional.....	9.0	9.1	9.5	17.0	11.4	22.9	21.3	15.7	18.7	24.5	24.7	16.4	200.2
Administrative and service.....	6.4	6.4	7.7	8.5	5.5	6.0	8.7	10.5	19.0	11.2	6.6	9.0	105.5
Other nonresidential buildings <sup>1</sup> .....	7.4	5.1	10.1	16.3	13.6	20.9	16.5	21.9	10.7	21.4	6.9	17.5	168.3
Highways.....	68.1	91.0	109.1	115.8	142.0	149.7	147.0	144.0	120.0	109.0	83.4	128.4	1,407.5
Sewer and water systems.....	19.5	26.8	31.8	48.6	60.7	28.8	61.2	62.0	50.5	49.8	42.0	47.3	529.0
Sewer.....	11.4	17.5	20.2	32.6	22.4	16.7	35.7	30.1	26.1	30.4	25.4	20.5	289.0
Water.....	8.1	9.3	11.6	16.0	38.3	12.1	25.5	31.9	24.4	19.4	16.6	26.8	240.0
Public service enterprises.....	11.0	11.9	10.7	10.1	12.2	9.2	17.5	18.3	21.1	14.0	9.7	8.3	154.0
Electric power.....	8.3	4.1	1.2	4.0	3.2	3.3	2.7	3.5	5.7	3.2	4.9	2.7	46.8
Other <sup>2</sup> .....	2.7	7.8	9.5	6.1	9.0	5.9	14.8	14.8	15.4	10.8	4.8	5.6	107.2
Conservation and development.....	4.5	.6	3.7	4.6	2.8	7.5	2.8	3.6	5.1	3.9	3.6	3.3	46.0
All other State and locally owned <sup>3</sup> .....	2.9	2.5	2.6	3.7	2.5	4.7	4.2	4.1	3.9	3.7	1.8	2.1	38.7

<sup>1</sup>Includes social and recreational and other miscellaneous nonresidential buildings.<sup>2</sup>Includes local transit, airfields, marine terminals, and other miscellaneous public service enterprises.<sup>3</sup>Includes parks and playgrounds and all other State and locally owned construction not elsewhere classified.

Table 22.—CONTRACT AWARDS FOR STATE AND LOCALLY OWNED PROJECTS, MONTHLY, 1946-51—Continued

[Value, in millions of dollars]

Type of construction	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1949													
STATE AND LOCALLY OWNED.....	250.4	195.2	335.3	375.7	384.6	385.9	489.6	388.6	337.6	313.9	292.4	317.0	4,066.2
Residential buildings.....	54.9	7.5	56.2	27.2	13.1	40.2	35.6	42.0	17.1	25.4	16.0	22.3	357.5
Nonresidential buildings.....	90.7	81.6	126.7	142.9	148.5	154.1	175.7	116.8	115.0	119.3	120.2	123.6	1,515.1
Educational.....	44.3	47.1	73.6	59.4	90.9	83.0	97.4	74.3	64.5	78.6	70.1	70.1	853.3
Hospital and institutional.....	28.4	15.6	18.3	62.5	25.1	49.0	40.3	19.3	27.4	17.7	12.2	24.1	339.9
Administrative and service.....	6.4	5.4	13.3	5.8	5.7	7.7	20.5	7.1	9.2	6.7	23.9	5.9	117.6
Other nonresidential buildings <sup>1</sup> .....	11.6	13.5	21.5	15.2	26.8	14.4	17.5	16.1	13.9	16.3	14.0	23.5	204.3
Highways.....	71.5	65.0	90.0	122.0	147.8	137.2	150.0	167.2	144.8	103.8	86.8	115.4	1,401.5
Sewer and water systems.....	21.6	24.9	37.5	53.9	59.8	37.1	95.2	37.9	42.5	51.1	54.0	42.8	558.3
Sewer.....	13.2	14.5	20.2	29.0	35.5	23.9	38.6	27.0	20.5	34.2	35.7	20.1	312.4
Water.....	8.4	10.4	17.3	24.9	24.3	13.2	56.6	10.9	22.0	16.9	18.3	22.7	245.9
Public service enterprises.....	7.8	8.9	18.1	14.8	8.0	11.0	19.5	14.1	8.7	7.7	7.9	6.4	132.9
Electric power.....	2.7	4.3	11.1	5.9	3.1	1.6	6.7	10.2	4.2	2.5	1.8	4.3	58.4
Other <sup>2</sup> .....	5.1	4.6	7.0	8.9	4.9	9.4	12.8	3.9	4.5	5.2	6.1	2.1	74.5
Conservation and development.....	1.7	3.8	4.1	10.6	3.4	3.5	8.4	5.4	4.1	2.8	1.9	2.4	52.1
All other State and locally owned <sup>3</sup> .....	2.2	3.5	2.7	4.3	4.0	2.8	5.2	5.2	5.4	3.8	5.6	4.1	48.8
1950													
STATE AND LOCALLY OWNED.....	223.1	276.4	340.7	384.8	430.7	510.6	504.1	497.3	484.2	360.4	436.7	474.3	4,923.3
Residential buildings.....	17.9	7.9	14.2	27.1	30.7	22.1	44.1	41.0	43.0	36.1	33.7	114.1	431.9
Nonresidential buildings.....	82.2	97.0	134.1	142.7	160.7	193.7	201.5	197.1	186.5	149.2	181.2	161.8	1,887.7
Educational.....	54.4	61.2	83.5	91.0	96.8	118.9	126.3	120.7	119.5	92.0	109.1	107.1	1,180.5
Hospital and institutional.....	6.9	16.3	21.9	23.8	28.6	42.9	33.6	29.2	36.5	26.9	44.3	26.6	337.5
Administrative and service.....	6.8	6.6	12.2	11.7	10.7	14.0	17.4	22.4	10.5	17.5	12.4	16.6	158.8
Other nonresidential buildings <sup>1</sup> .....	14.1	12.9	16.5	16.2	24.6	17.9	24.2	24.8	20.0	12.8	15.4	11.5	210.9
Highways.....	72.4	111.1	131.1	156.6	181.0	226.5	177.7	152.4	181.2	105.2	153.8	131.2	1,780.2
Sewer and water systems.....	32.7	49.2	45.9	42.6	38.2	49.4	55.4	70.9	46.9	55.9	51.2	47.1	585.4
Sewer.....	18.8	19.4	28.5	22.6	23.8	31.9	39.0	41.7	27.7	41.4	34.3	28.4	357.5
Water.....	13.9	29.8	17.4	20.0	14.4	17.5	16.4	29.2	19.2	14.5	16.9	18.7	227.9
Public service enterprises.....	11.9	7.5	4.9	7.5	12.2	11.7	16.3	26.1	17.6	7.2	9.3	13.6	145.8
Electric power.....	1.1	3.2	3.9	2.7	2.9	3.6	5.8	4.6	5.9	1.7	3.7	8.6	47.7
Other <sup>2</sup> .....	10.8	4.3	1.0	4.8	9.3	8.1	10.5	21.5	11.7	5.5	5.6	5.0	98.1
Conservation and development.....	3.7	1.8	6.8	4.4	5.1	4.2	3.8	3.5	5.2	3.5	5.2	4.1	51.3
All other State and locally owned <sup>3</sup> .....	2.3	1.9	3.7	3.9	2.8	3.0	5.3	6.3	3.8	3.3	2.3	2.4	41.0
1951													
STATE AND LOCALLY OWNED.....	362.3	306.8	431.0	386.6	443.2	686.9	537.6	428.0	379.8	353.0	334.4	396.8	5,046.4
Residential buildings.....	51.9	40.5	47.2	26.0	40.4	255.5	85.6	10.4	6.5	12.8	16.7	42.8	638.3
Nonresidential buildings.....	145.7	106.7	171.7	165.0	178.2	188.9	222.8	183.3	151.2	151.1	139.8	156.1	1,960.5
Educational.....	95.7	73.0	121.9	121.3	134.4	123.6	131.6	128.0	96.9	110.0	100.5	125.5	1,362.4
Hospital and institutional.....	26.7	12.0	19.3	24.0	27.0	33.2	53.9	35.6	39.2	19.1	22.7	15.7	328.4
Administrative and service.....	9.5	8.6	17.2	7.6	8.4	14.0	19.0	9.8	6.7	5.5	10.1	7.9	124.3
Other nonresidential buildings <sup>1</sup> .....	13.8	13.1	13.3	12.1	8.4	18.1	18.3	9.9	8.4	16.5	6.5	7.0	145.4
Highways.....	110.4	96.1	122.8	110.1	156.2	186.1	176.8	183.1	158.8	132.9	117.6	120.4	1,671.3
Sewer and water systems.....	41.4	51.2	54.2	57.6	52.8	41.8	41.3	36.0	48.1	42.5	45.9	60.8	573.6
Sewer.....	26.1	24.2	26.4	34.0	31.5	25.3	27.2	21.6	38.2	27.0	24.9	38.2	344.6
Water.....	15.3	27.0	27.8	23.6	21.3	16.5	14.1	14.4	9.9	15.5	21.0	22.6	229.0
Public service enterprises.....	8.0	7.9	28.0	21.5	7.9	6.0	6.4	9.2	9.1	8.1	8.3	13.2	133.6
Electric power.....	2.5	2.3	24.6	18.4	5.7	2.2	1.5	3.6	3.1	4.1	1.1	5.4	74.5
Other <sup>2</sup> .....	5.5	5.6	3.4	3.1	2.2	3.8	4.9	5.6	6.0	4.0	7.2	7.8	59.1
Conservation and development.....	3.1	2.9	5.1	3.7	3.6	5.0	2.3	2.0	3.5	3.5	2.3	2.0	39.0
All other State and locally owned <sup>3</sup> .....	1.8	1.5	2.0	2.7	4.1	3.6	2.4	4.0	2.6	2.1	1.8	1.5	30.1

<sup>1</sup>Includes social and recreational and other miscellaneous nonresidential buildings.<sup>2</sup>Includes local transit, airfields, marine terminals, and other miscellaneous public service enterprises.<sup>3</sup>Includes parks and playgrounds and all other State and locally owned construction not elsewhere classified.

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## Appendix A.—DEFINITIONS

The following definitions describe terms used in construction statistics. As far as possible, the basic data are collected and processed to provide measures which agree with the defined concepts. There are, however, a limited number of situations wherein the source figures do not precisely agree with the prescribed definitions. For example, the installation of movable equipment is not construction; nevertheless, the value of this kind of work is sometimes inextricably included in the sources. Although troublesome, these deviations are unlikely to affect significantly the accuracy of the final statistics. This limitation characterizes other areas of economic statistics, and there is no reason to believe that it is more or less aggravated in construction statistics.

### COMPONENTS OF CONSTRUCTION

Construction covers the erection, maintenance, and repair (including replacement of integral parts), of immobile structures and utilities, together with service facilities which become integral parts of structures and are essential to their use for any general purpose. It includes structural additions and alterations. Structures include buildings, dams, storage reservoirs, levees, canals, docks, refineries, storage tanks and silos, highways, airfields, bridges, tunnels, railroads and street railways, roadways, tracks, water and signal towers, and all similar work which are built into or affixed to the land. Utilities include electric light and power transmission and distribution lines; petroleum and gas pipelines and distribution lines; telephone and telegraph lines; radio, television, and radar towers; water supply lines; sewers; and all similar installations above or below ground for the purpose of supplying utility services.

Construction covers those types of immobile equipment which, when installed, become an integral part of the structure and are necessary to any general use of the structure. This includes such service facilities as plumbing, heating, air-conditioning and lighting equipment, elevators, and escalators and some equipment in certain industries, such as chemicals and petroleum refining, in which production facilities are often an integral part of the structure, and generally are fabricated on site. In general, construction does not include the procurement of special purpose equipment designed to prepare the structure for a specific use. Examples of such equipment are steam tables in restaurants, pews in churches, lockers in school buildings, conveyor lines in factories, and refrigerators or dishwashers in homes. Furthermore,

construction does not include the installation of such equipment, except when the installation involves structural changes and then only to the extent of such structural changes. Where a change in use involves structural changes, such as the erection of partitions in a loft building to convert it to office use, the making of such structural changes is construction. Likewise, any change in exterior walls, such as remodeling of a store front, is construction.

Clearing and development of the site is a part of construction. When demolition of an existing structure is required, and performed as a part of a construction contract, that demolition is included.

Excluded from construction are oil and gas well drilling; the digging and shoring of mines; or work which is an integral part of farming operations such as plowing, terracing, and the digging of drainage ditches.

New construction is defined to include the complete, original erection of structures and utilities, including essential service facilities, as well as major additions and alterations. Major additions and alterations include construction of projects such as a new retaining wall; addition of a wing, a story or stories; conversion of space to other uses; or the initial installation of fixed equipment, e.g., elevators, furnaces, or air-conditioning systems.

Maintenance and repairs relate to the restoration of structures, utilities, and service facilities (including replacement of integral parts). Repainting, repapering, reroofing, redredging, railroad maintenance of way, and street and highway patching and minor resurfacing are included.

The terms "improvement," "modernization," or "betterment" cut across the classification of construction. That is, these terms may relate to new construction, which includes additions and alterations; to maintenance and repairs; or may refer to projects which include both categories.

### MEASUREMENTS OF CONSTRUCTION

Value of construction includes the cost of architectural and engineering fees, materials and service facilities installed, labor, overhead, and profit on construction operations. It does not include speculative profits or the value of any equipment other than the types included in service facilities which are necessary for any general use of the structure or utility. Only construction in the continental United States is covered.

Estimates of the value of construction measure the value of work put in place on all structures and facilities under construction during a given period,



regardless of when work on each individual project was started. The value represents a summation of costs of materials actually incorporated into structures and facilities or consumed during the period, regardless of when the materials were purchased or delivered to the site; costs of labor performed during the period; and proportionate allowances for overhead costs and profits on construction operations. Thus, the value-put-in-place estimates differ from the total value of contracts awarded and the total construction cost of dwelling units started during a given period. The latter two represent the total value of the completed construction, whereas the former is the value of work placed at a particular time. Only a small part of the project value may be put in place during the first month of construction and the balance in succeeding periods as work progresses.

Since most construction is done on order, sales costs and selling profits in the ordinary trade sense are uncommon and are excluded, even in the case of housing constructed by operative builders. The value of force-account work (construction done by governmental agencies or nonconstruction firms with a separate work force—not under contract) is included in the value of construction. Included also is the value of construction work done by owners or their families on their own homes or farm buildings, etc.

### CATEGORIES OF CONSTRUCTION

The description which follows sets forth the general pattern followed in classifying construction projects. The classifications cannot be adhered to strictly because of lack of uniformity in the sources of data and the fact that the ultimate purpose of individual construction projects is not always clearly defined in the available information.

The difference between private and public construction relates to ownership rather than source of funds. Private construction covers projects owned by individuals and organizations other than Federal, State, and local government bodies. Thus, private hospital and institutional construction includes work done under the National Hospital Program<sup>1</sup> by private nonprofit organizations, toward which the Federal Government has contributed funds. Some types of construction, likewise, involve State or local aid to projects owned by private nonprofit organizations, which are classified as private construction. For this reason, the public construction estimates do not account for all public expenditures on new construction.

In the public sector, federally owned construction with few exceptions covers projects on Fed-

eral property and financed with Federal funds, whether the work is done by force-account or by contract. State and locally owned construction (which also covers work done both by force-account and by contract) includes projects financed entirely by State and local governments, as well as those financed partly by the Federal Government under grants-in-aid programs. Thus, the value figures for State and locally owned construction include monies from all three levels of government—Federal, State, and local.

Federal grants-in-aid have been provided for publicly owned construction exclusively, with the exception of hospitals owned by private nonprofit institutions. For the most part, the types of public projects involving both Federal and State or local government funds are highways, airfields, schools, hospitals, and sewage-disposal and water-supply facilities.

The extent of Federal participation in various classes of public construction is shown in Section I, table 4, where expenditures for new public projects are classified as follows: (1) "Direct" (federally owned); (2) Federal aid; and (3) State and local. The sum of (1) and (2) gives the *total amount of Federal spending* and (3) the *total amount of State and local spending* on new publicly owned construction. This is in contrast with the classification by ownership, maintained in all other tables.

Governmental loans or other financial assistance, such as *mortgage insurance* (as distinguished from direct grants) do not affect the classification of projects by ownership or source of funds. Thus, a privately owned project for which such aid is received is considered to be privately owned and financed. Likewise, a State or local government owned project for which a Federal Government loan is extended is nevertheless classified as both owned and financed by the State or local government, since the loaned funds are repaid.

### PRIVATE CONSTRUCTION

The following apply specifically to the classification used in compiling the estimates for the value of construction put in place.

#### Residential Buildings (Nonfarm)

**NEW DWELLING UNITS.**—Includes new houses, apartments, and other privately owned housekeeping dwellings of all types not located on farms. Prefabricated houses are included, if permanent and made of new materials. Not included are existing housing which has been moved, or dismantled and reconstructed with essentially the same materials on another site, units without housekeeping facilities, temporary structures, and such movable structures as trailers and houseboats. Accommodations in transient hotels, dormitories, and clubhouses are not counted in the dwelling-unit figures; these are usually nonhousekeeping quarters and the

<sup>1</sup>The construction program authorized by the Hospital Survey and Construction Act of 1946, Public Law 725, 79th Congress.

buildings containing them are defined as "non-housekeeping residential."

Coverage under new privately owned dwelling units excludes the remodeling of existing residential structures, and the conversion of nonresidential buildings into housing, both of which are classified under "additions and alterations." Living quarters provided for superintendents, caretakers, or watchmen in warehouses and factories are excluded from residential building, since construction of the residence in these cases is incidental to the non-residential building. On the other hand, the residential figures include housekeeping dwelling units in buildings that also contain stores. In such cases, the housing accommodations usually account for a major part of both the physical volume and value of the construction job.

**ADDITIONS AND ALTERATIONS.**—The value of additions and alterations to private nonfarm residential buildings is estimated separately from other new residential building, and is published as a distinct category in the series on the dollar value of new construction put in place. In addition to examples cited above, additions and alterations to residential structures include finishing a basement or attic, conversion of space to provide an additional dwelling unit, general remodeling or modernization by installing an additional bathroom, enlarging a kitchen, and the like.<sup>2</sup>

**NONHOUSEKEEPING.**—Includes fixed structures containing nonhousekeeping quarters, such as transient hotels, dormitories, clubhouses, and tourist courts and cabins.

#### Nonresidential Buildings

Except for most buildings on industrial and public utility projects, nonresidential buildings, when built as separate projects, are classified in one of the following subgroups in terms of the function of the specific building being constructed rather than in terms of the broader facility with which it is affiliated. For example: a college dining hall is classified as a restaurant and not as an educational building; a nurses' home at a hospital is classified as a nonhousekeeping residential building and not under hospitals; a school gymnasium is classified as a social and recreational building and not as an educational building. Consequently, for all categories—educational, and hospital and institutional are the most important—auxiliary facilities are classified in other than the category with which they are affiliated.

**INDUSTRIAL.**—Includes production, assembly, and warehouse buildings in all manufacturing industries. Also includes refrigeration, ice and cold

storage plants of warehouses, industrial grain elevators, and storage silos, as well as dry cleaning plants, laundries, and miscellaneous light manufacturing buildings.

**OFFICE BUILDINGS AND WAREHOUSES.**—Includes office and loft buildings, banks, building and loan association buildings, film exchanges, and insurance buildings. Also includes: warehouses and storage buildings (other than cold storage buildings, grain elevators, and storage silos, which are classified as industrial). Exceptions to this definition are: (1) warehouses built by industrial companies for their own use are classified as industrial, and (2) office buildings and warehouses built by public utility companies for their own use are classified under public utilities.

Prior to July 1955, warehouses for commercial establishments not engaged in selling storage space (e.g., a warehouse for a department store) were under "miscellaneous nonresidential buildings;" beginning with July 1955 data, they are included in "office buildings and warehouses." Thus, estimates for this category are not strictly comparable between the two periods.

**STORES, RESTAURANTS, AND GARAGES.**—Includes retail bakeries, barber shops, beauty parlors, department stores, dress shops, drug stores, food stores, showrooms and all other retail stores or shops; automats, bars, beer gardens, cabarets, cafes, cafeterias, diners, grill rooms, ice cream parlors, mess halls, roadhouses, roofgardens, tearooms, taverns, and all other restaurant or similar buildings; and public garages and auto service stations (for gasoline, battery charging and servicing, greasing, etc.).

**RELIGIOUS.**—Includes churches, Sunday schools, tabernacles, synagogues, convents, monasteries, theological seminaries, funeral parlors, crematories, mausoleums, mission houses, novitiate buildings, cemetery vaults, etc.

**EDUCATIONAL.**—Includes elementary and secondary schools, college buildings, libraries and museums, fine arts buildings, educational and commercial laboratories (not engaged in manufacturing) and science buildings, observatories, planetariums, etc. Does not include auxiliary facilities at schools such as auditoriums, gymnasiums, assembly buildings, dormitories, dining halls, chapels, infirmaries, field houses, etc., if they are built as separate structures.

**HOSPITAL AND INSTITUTIONAL.**—Includes hospitals (except animal hospitals), clinics, infirmaries, sanatoriums, and other health treatment facilities; nursery and nursing homes; and institutions for the elderly. Excludes nurses' homes, dining halls, and other auxiliary hospital and institutional facilities when they are built as separate structures.

**SOCIAL AND RECREATIONAL.**—Includes assembly buildings, auditoriums, community houses, golf and country clubhouses, athletic and social

<sup>2</sup>For a more complete description of the coverage of residential additions and alterations, see Revised Estimates of Residential Additions and Alterations, 1945-56 in (Construction Review, June 1957).

clubs, lodges, theaters, music conservatories, radio broadcasting studios, gymnasiums, indoor stadiums, indoor arenas, indoor coliseums, indoor courts, indoor swimming pools, locker buildings, Y.M.C.A. buildings, bathhouses at beaches, bowling alleys, billiard rooms, dance halls, indoor rinks, exhibit buildings, and other miscellaneous social and recreational buildings.

**MISCELLANEOUS NONRESIDENTIAL.**—Includes privately owned post office buildings; comfort stations; fire stations; zoo buildings; animal hospitals, havens, and pounds; private garages or boathouses; refreshment stands; greenhouses; and boiler houses—in each instance only when built as separate structures. Also includes aircraft hangars, bus terminals (except for local transit), airport terminals, freight-truck and industrial terminals, and other miscellaneous nonresidential buildings.

Beginning with July 1955, warehouses for commercial establishments not engaged in selling storage space (e.g., a warehouse for a department store) are included in "office buildings and warehouses," but were classified previously under "miscellaneous nonresidential buildings." Thus, estimates for the latter category are not strictly comparable between the two periods.

#### Farm Construction

**OPERATORS' DWELLINGS.**—Includes the farm operators' residences which are located on the farms operated.

**SERVICE BUILDINGS.**—Includes barns and other buildings used in production; dwellings other than farm operators' dwellings; fences; and wells.

#### Public Utilities

**RAILROADS.**—All capital expenditures (except for rolling stock and other equipment) covering, for example, bridges; tracks, trestles, and culverts; elevated structures; fences, snowsheds, and signs; station and office buildings; roadway buildings; water stations; fuel stations; shops and engine-houses; coal and ore wharves; telegraph and telephone lines; signals; power plants; power transmission systems; and miscellaneous structures.

**TELEPHONE.**—New construction expenditures for buildings and outside plant, including poles, underground and aerial plant, and drop and block wires. Equipment installed in central offices and subscriber stations is excluded.

**TELEGRAPH.**—New construction expenditures for buildings and outside plant, including pole lines, underground and aerial plant, wires, etc. Station equipment is excluded.

**LOCAL TRANSIT.**—All capital expenditures (other than machinery and equipment) for "way and structures" for local transit companies, including subways, power plant, and power-line transmission.

**PETROLEUM PIPELINES.**—All capital expenditures other than machinery and equipment for gathering lines, trunk lines, and general plant for common carriers of petroleum and its liquid products. Includes pipelines, pumping stations, oil tanks, communication systems, and buildings.

**ELECTRIC LIGHT AND POWER.**—Capital expenditures for new construction or additions to existing production, transmission, distribution, and general plants. Includes all structures, boiler plants, reservoirs, dams and waterways, towers, poles, and underground conduits. Also includes construction by cooperatives financed with Rural Electrification Administration loans.

**GAS.**—Capital expenditures for the construction of and additions to gas (natural and manufactured) utility plants. Includes production, transmission, underground storage, distribution, and general facilities.

#### All Other Private

Includes streets and bridges; dams and reservoirs (except dams built by public utilities for generation of power); waterfront improvements (such as wharves, docks, yacht basins, etc.); sewer and water facilities; airfield construction other than buildings; parks and playgrounds; and other miscellaneous nonstructural items.

#### PUBLIC CONSTRUCTION

In general, public construction is classified on a functional basis similar to that for private construction. Each separately built structure is classified according to the specific major use for which it is intended. To illustrate, dormitories at a school or hospital are classified under residential and not included in the educational or hospital category. There are, however, exceptions to this general rule.

It is not always possible to classify construction on the basis of intended use in the case of federally owned construction, since the classification of many Federal projects is on an agency basis. Thus, all construction at military installations (except for work at industrial establishments and housing under the armed services housing program<sup>3</sup>), regardless of type, is classified as "military facilities" in the work-put-in-place series. Also, all civil works construction by the Corps of Engineers and all construction by the Tennessee Valley Authority and the Bureau of Reclamation are classified as "conservation and development" in this series. The public "industrial" category includes all types of works at Atomic Energy Commission facilities (except housing), and at other federally owned industrial establishments.

<sup>3</sup>Housing under Public Law 345, 84th Congress (Capehart amendment to the National Housing Act).



Also, large State and locally owned structures (\$100,000 or more) from 1945 through 1952 were classified according to the facility with which they were associated, rather than their specific use, as at present. Thus, in those years, a college dining hall was classified as educational, instead of as a restaurant.

The following definitions apply to the series on work put in place (Section I) and the series on public contract awards (Section III). Where there are significant classification differences between the two series, they are noted.

The definitions apply to both Federal and State and local public construction except when otherwise indicated.

"State and local public" pertains to State, county, and municipal governments and to all other governmental bodies, below the Federal level, such as townships, and school and utility districts, as well as housing authorities, toll road authorities, and other special corporate bodies or agencies which have been created or authorized by State, county, or municipal governments to construct facilities which remain in the public domain.

#### Residential Buildings

Covers publicly owned permanent, temporary, and converted housing, both in housekeeping and nonhousekeeping units, including dormitories and nurses' homes. All State and locally owned housing is included. The only types of federally owned housing included, however, are dwellings for war workers built during and immediately after World War II; housing at the site of atomic energy facilities; and armed services housing under Public Law 345, 84th Congress (Capehart amendment to the National Housing Act). All other federally owned housing is excluded, as, for example, all except Capehart housing for the military, which is included with military facilities; and housing at the site of Federal conservation and development projects, which is included with conservation and development. Also excluded is privately owned housing financed with Government-insured or -guaranteed loans.

#### Nonresidential Buildings

**INDUSTRIAL.**—Includes federally owned manufacturing, assembling, and processing buildings (and associated structures and facilities), such as those constructed by the Defense Plants Corporation, the Department of Defense, and the Atomic Energy Commission. These include such types of facilities as arsenals, ordnance works, and shipyards and associated works and structures. Includes federally owned facilities financed by production expediting funds, and located at privately owned establishments. State and locally owned manufacturing buildings are included in "miscellaneous nonresidential buildings."

**ADMINISTRATIVE AND SERVICE.**—Includes courthouses and city halls; post offices, customs houses, government office buildings; immigration and quarantine stations; State capitols; administration buildings in connection with publicly owned utilities; jails and penitentiaries; reformatories and detention homes; police stations; workhouses; other penal and corrective buildings; firehouses; zoo buildings; and comfort stations. Includes armories, except that in the construction-put-in-place series, the value of armories wholly or partially financed with Federal funds is included with military facilities.

**EDUCATIONAL.**—Includes elementary and secondary school buildings; college and university buildings; laboratories and science buildings; libraries, art galleries, and museums. Does not include auxiliary facilities at schools such as auditoriums, gymnasiums, assembly buildings, dormitories, dining halls, chapels, infirmaries, field houses, etc., if these are built as separate structures.

**SOCIAL AND RECREATIONAL.**—Includes assembly buildings, auditoriums and community buildings; theaters, gymnasiums, stadiums and athletic buildings; bathhouses, indoor rinks, exhibit buildings, and miscellaneous park buildings. Monthly data for this category are included in the "other nonresidential buildings" groups of both the put-in-place and the contract-awards series.

**HOSPITAL AND INSTITUTIONAL.**—Includes all veterans' hospital and domiciliary facilities; all general, mental, tuberculosis, and chronic disease hospitals; clinics and infirmaries; child centers and nurseries; orphan homes; nursing homes and homes for the aged. Excludes nurses' homes, dining halls, and other auxiliary hospital and institutional facilities when they are built as separate structures.

**MISCELLANEOUS NONRESIDENTIAL BUILDINGS.**—Includes garages and service stations; restaurants and cafeterias if independent facilities; bus and truck terminals; civil airport terminals, hangars, and administration buildings; boiler houses and central heating plants; grain elevators; greenhouses; crematoriums; State and locally owned retail stores and dispensaries, manufacturing buildings, and warehouses; and all other public buildings not elsewhere classified. Monthly statistics also include social and recreational buildings under the title "other nonresidential buildings."

#### Military Facilities

The category "military facilities" is not shown in the Public Contract Awards series, because data for the specific types of construction at military establishments appear in their appropriate place, e.g., "hospital and institutional," "airfields," "highways," etc.

In the Value of Construction Put in Place series, however, this component represents (except for work at Federal industrial installations and housing under the armed services housing programs), all construction at Federal military establishments. The relatively small amount of military construction by the States (armories, rifle ranges, and the like) is classified according to type of construction.

Types of building construction included under military facilities in the Value of Construction Put in Place series include family housing (other than the recent program of armed services—Capehart—housing), troop housing, administration and training buildings, warehouses, mess halls, recreation centers, educational facilities, chapels, powerhouses, post and general hospitals, heating plants, and commissaries. Among a wide range of nonbuilding projects, it includes airfields, target areas, training areas and facilities, fleet facilities, communication networks, and electronics installations.

#### Highways

Includes streets, roads, alleys, bridges, vehicular tunnels, viaducts, sidewalks, curbs, and gutters, except when installed by private builders as a part of land development; forest and park roads; new and extension of old culverts; right-of-way drainage, erosion control, lighting, and guard rails; and earth-work protective structures in connection with road improvements.

#### Sewer and Water Systems

**SEWER.**—Includes all sanitary and storm sewerage systems, sewage disposal plants, and incinerators.

**WATER.**—Includes all water-supply systems, including wells; filtration and treatment plants; dams and reservoirs for State and locally owned water-supply systems; water towers, aqueducts, and other water transmission and distribution facilities.

#### Public Service Enterprises

Includes State and locally owned electric light and power plants, dams and reservoirs for power, gas facilities, local transit systems, and other utility services except water supply and sewage treatment and disposal. Includes also State and locally owned marine and barge terminals, runways, roads, aprons, grading, drainage, radio and signal towers, lighting, and all nonbuilding work at civil airfields. Civil airfield buildings are included in "other nonresidential buildings."

#### Conservation and Development

Covers all federally and State and locally owned reclamation, river, harbor, flood control, and soil

conservation projects, including drains, and drainage ditches (other than those which are involved in highway construction), cofferdams, levees, jetties, sea walls, and harbor and channel development. Covers State and locally owned dams and reservoirs for flood control only; all federally owned dams, reservoirs, power-generating and transmission facilities. In the Value of Construction Put in Place series, includes, in addition, all other construction at the site of the federally owned projects of these types.

#### All Other Public

Includes miscellaneous non-Federal public projects, such as parks and playgrounds, ballparks, tennis courts, football fields, landscaping, memorials and other nonbuilding projects not elsewhere classified. Also includes miscellaneous Federal nonbuilding projects not elsewhere classified.

The above are the only separate categories of construction for which data are provided under the Value of Construction Put in Place series. In the Public Contract Awards series, data are shown separately for the following types of construction also:

#### Federally Owned

**AIRFIELD BUILDINGS.**—Includes flight-line and support buildings at air bases, e.g., administration and terminal buildings, control towers, hangars, repair shops, ready rooms.

**TROOP HOUSING.**—Includes all nonhousekeeping buildings for the housing of troops, as, for example, barracks, bachelor officer quarters, cantonments, and tent camps.

**WAREHOUSES.**—Includes all federally owned buildings for the storage of materials, supplies, equipment, food, clothing, explosives, etc., including cold storage plants.

**AIRFIELDS.**—Includes all nonbuilding work on airfields—grading and drainage, paving, construction of refueling systems, communications and control systems, and airfield lighting.

**ELECTRIC POWER.**—Includes all work exclusively for the generation, transmission, and distribution of electrical power, including hydroelectric and thermal generating plants, and towers and transmission lines.

#### State and Locally Owned

**ELECTRIC POWER.**—Includes all State and locally owned electric light and power plants and transmission and distribution lines. Also includes dams and reservoirs for power generation.



### WHOLESALE PRICE INDEX OF BUILDING MATERIALS

The wholesale price index of building materials measures the general rate and direction of price movements in primary markets. It is designed to measure "real" or "pure" price changes, i.e., those not influenced by changes in quality, quantity, terms of delivery, and the like.

As defined for purposes of this index, building materials refer to those materials that are either (1) physically incorporated as an integral part of a building during its construction, or (2) normally installed during the process of construction and not removable without seriously impairing the use of the building or actually destroying a portion of it. All materials usually incorporated into buildings by the general contractor or his subcontractor are included. Items used primarily in nonbuilding construction (e.g., railroad, pipeline, dam, and highway work) are assigned weights in accordance with their use in building construction. Specifically excluded are consumer durable goods such as kitchen ranges and refrigerators.

"Wholesale" refers to sales in large lots in the first important commercial transaction for each commodity. It does not include sales that are interplant transfers (internal book transactions) within the same company.

Commodities included in the index are defined by precise specifications which incorporate the principal price-determining characteristics of the commodities, and by the terms of sale from specified types of sellers to specified types of buyers. Imports are included because they are sold in the domestic market; exported items are included up to the point at which they leave the domestic market. New products are not included until they have become established both technologically and in the market. Transportation costs are included only insofar as they are directly included in the primary market price. Usually, prices are selected f.o.b. production or central marketing points in order to avoid direct reflection, in the index, of changes in transportation costs. Similarly, subsidies and direct excise taxes are excluded as far as possible;

they are not considered as part of the "price" as defined for this series.

### HOURLY EARNINGS IN CONTRACT CONSTRUCTION

Gross average hourly earnings in contract construction refer to full-time and part-time non-supervisory construction workers and working foremen who worked during, or received pay for, any part of the pay period ending nearest the 15th of the month for which data are reported.

Contract construction covers firms whose major activity is performing construction operations on a contract basis for others, including new construction, alterations, demolition, and maintenance and repair. Classification of firms is on the basis of the Industrial Classification Code.

Construction workers, as defined for this series, include skilled and unskilled on-site workers, and those employed in off-site construction operations (including preassembly and precutting) on both private and public projects. (Prior to January 1948, the data referred only to on-site workers on private projects.) In addition to working foremen, the series covers journeymen, mechanics, apprentices, helpers, laborers, and similar workers, regardless of skill, engaged in contract construction operations.

The series excludes self-employed construction workers, working proprietors, and force-account employees (i.e., those not on a construction contractor's payroll, but working directly for a business or government agency using its own separate work force to perform nonmaintenance construction on its own properties).

Gross hourly earnings are earnings before such deductions as social security, withholding taxes, bonds, and union dues. Gross earnings include the workers' base pay, plus premium pay for overtime and bonuses, and pay for sick leave, holidays, and vacations taken, but exclude such items as employer contributions to welfare funds, and to insurance or pension plans.

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## Appendix B.—DERIVATION OF THE ESTIMATES

### NEW CONSTRUCTION PUT IN PLACE—UNADJUSTED DATA

#### SOURCES OF DATA AND ESTIMATING METHODS

The specific sources and methods described in the following section are those used in preparing the estimates for 1956. Estimating procedures for the construction estimates appearing in tables 2, 3, and 5 are determined largely by the nature of the source data. The estimates are derived from data collected from a wide variety of secondary sources and from primary source material originally intended to serve other purposes.

Few of these sources are static. In fact, the outstanding characteristic of the list of such sources is its constant change in content. This results from the continual search for more complete, accurate, and timely information than previously available; the undertaking and completion of public works programs; and the changes in operating and reporting requirements of Federal construction regulatory agencies.

Three general methods are used in developing the estimates from the various source materials. In order of preference—primarily from the standpoint of conformity to the conceptual framework of the statistics, and to the requirements of a monthly series—these are: (1) summarizing physical observations of construction underway (or the cost records which reflect such observations); (2) summarizing fiscal statements or reports on additions to plant; and (3) converting data on work started to estimates of work put in place.

(1) The summaries made from actual observations of progress on individual construction projects are based primarily on the operating reports of Federal agencies supervising the construction of public works, such as military airfields, veterans' hospitals, flood control dams and the like.

Many non-Federal public construction agencies make similar reports, but their systematic collection and use is not considered feasible at present. Except in the case of the New York City Housing Authority, such progress reports are therefore used only with respect to Federal construction for which they are a readily available and accurate source of information. They usually reflect the observation, or in some cases the actual measurement, by a Federal engineer of the status of a construction job at uniform intervals primarily to determine payments due the contractor for work accomplished during the interval.

(2) The summaries of fiscal data are based on the accounting records of private companies such as privately owned public utilities, and of public agencies which are required, in the public interest, to maintain financial records. The figures reflect disbursements for construction, and are adjusted roughly whenever possible for deferred charges, such as for large purchases of materials to be used in a later period. Generally, suitable basic data are in published form. For example, some are summarized by trade associations for presentation to the public in yearbooks or other periodical reports, and certain data are summarized by Government regulatory agencies for publication in their annual reports.

A special case is the table on appropriations and expenditures for civil public works in the annual budget of the United States, made available at the time of the President's annual budget message to Congress. It consists of a tabulation of checks issued against construction appropriation. After adjustment to eliminate operation, maintenance, equipment procurement, and other nonconstruction items, these data form the basis of the estimates for construction by a few Federal agencies from which monthly data are not obtained at present.

(3) Conversion of work started to estimates of work put in place is the most important of the three methods of deriving construction expenditures estimates, from the standpoint of the dollar volume of the expenditures categories for which it is used. The value of work started each month is spread over a period of time according to predetermined patterns, separately, for each type of work. Each pattern is a percentage distribution representing the estimated proportion of the total cost of construction which will be performed in each month during the estimated life or completion-time of a particular project or group of projects. For a given type of construction, therefore, the expenditures for any month are the sum of the estimated expenditures during that month for all projects started in that or in prior months, which, on the basis of the pattern, are estimated to be under construction.<sup>1</sup>

<sup>1</sup>Patterns should be developed ideally, not only by type of project, but according to size, duration, regional location, season of start, and other relevant criteria, and should be revised periodically based on objective data. The patterns in use vary by type of work and, for some types of work, according to size and season of start, but no revisions have been made in these patterns for most types of private and public work in over a decade.

Obviously, the use of these three different methods of estimating expenditures raises problems of comparability, both as to timing and coverage. Timing is a problem chiefly in month-to-month comparisons. Over longer periods, the three methods should give roughly similar results. Comparability in coverage is a more difficult problem. Therefore, all source material is carefully examined and adjustments are made in it, or in the expenditures estimated from it, to insure that the results conform with the general concepts previously outlined (see Appendix A).

The first and third of these three general estimating methods yield monthly results directly. The second, fiscal data, are usually available only on an annual basis. Therefore, the monthly figures are obtained by projecting the levels established for the previous year, on the basis of the known monthly movements of a related series. At the year's end, an adjustment is made to the new benchmark. This correction of level is only one of several types of revision which may be introduced during a comprehensive annual reexamination of all components of the estimates. These revisions frequently affect individual series over periods longer than a year.

The table appearing on pages 79-81 shows, for each class of construction, the type and source of the basic data used in preparing the estimates. These basic data may be adjusted to achieve comparability and improve accuracy as indicated below.

## SPECIFIC ESTIMATING PROCEDURES

### Private Construction

**RESIDENTIAL BUILDINGS (NONFARM).**—The expenditures estimates are determined by phasing out the valuation of *new dwelling units* started. Estimates of housing units started are based on building permits issued each month, plus estimates of housing started in non-permit-issuing places, derived from special sample surveys. In general, approximately 65 percent of dwelling units in permit areas are started in the month of permit issuance and 95 percent by the end of the 2 following months. These percentages have remained fairly stable over the past few years. The monthly reports on the value of residential building authorized by local building permits are adjusted to reflect the construction cost of new permanent nonfarm dwelling units started in all permit issuing places. Inflating factors are applied to compensate for the understatement of cost often inherent in permit valuation. These are revised periodically on the basis of information obtained from field surveys in which the permit valuation and construction cost reported by builders and contractors are compared for a large sample of projects.

Construction cost of units started in nonpermit-issuing places is based on monthly field studies. Estimated construction costs are secured from

builders and contractors for a large number of dwelling units in sample counties throughout the country. From these an average construction cost for all units started in nonpermit-issuing areas is derived.

The permit and nonpermit segments are then combined to give a total estimated construction cost of the dwelling units started in the given period. A further adjustment is then applied to this construction cost to cover architect and engineering fees, and that part of site development costs which are not accounted for elsewhere (expenditures for streets, sewers, sidewalks, curbs, and gutters built by municipalities are included under public construction).

An expenditure pattern is then applied to this adjusted cost figure to estimate the amount of work put in place in the months following start of construction. This pattern is derived from: (1) special studies of construction time to obtain a distribution of completions in the month of start, in the following month, and so on; and (2) studies of the progress on actual jobs to develop typical patterns for jobs of 2 months' duration, 3 months' duration, and so on. The final expenditure pattern is an average of these patterns for different lengths of construction time weighted by the proportion of the units started which are completed in these various lengths of time.

The residential *additions and alterations* estimates since 1947 are based on a 1950 benchmark which is moved using the trend in residential additions and alterations authorized by building permits. The 1950 benchmark was made in two parts: (1) expenditures by owner occupants of 1-to 4-family properties and (2) expenditures by landlords on tenant-occupied structures. The first segment was derived from two sources: (1) the Survey of Consumer Expenditures in 1950, conducted by the Bureau of Labor Statistics as a basis for revising its Consumer Price Index; and (2) the Federal Reserve System's 1951 Survey of Consumer Finances. The second segment of the 1950 benchmark, for tenant-occupied structures, was derived from building-permit data in selected cities.

The trend of building permits for residential additions and alterations was used to move the 1950 benchmark forward through 1956 and back through 1947 to give monthly estimates of residential additions and alterations. The new estimates were linked with the historical series during the 1945-46 period.<sup>2</sup>

**Nonhousekeeping** residential construction expenditures cover hotels, dormitories, and tourist courts, and are estimated in the same manner as described below for private nonresidential building.

<sup>2</sup>For a more complete description of the revised estimates, see *Revised Estimates of Residential Additions and Alterations, 1945-56* (in *Construction Review*, June 1957).

Basis for the estimates of the value of new construction put in place, by ownership, type of construction, and source of public funds

Type of construction	Ownership	Source of public funds	Basis of expenditure estimates <sup>1</sup>	
			Type of basic data	Source of basic data
Residential buildings (nonfarm):				
New dwelling units.....	Private.....	None.....	Building permits and field surveys.	Bureau of Labor Statistics, U. S. Department of Labor.
Additions and alterations.....	....do.....	....do.....	Building permits.....	Do.
Nonhousekeeping.....	....do.....	....do.....	Contract awards.....	F. W. Dodge Corp. <sup>2</sup>
Nonresidential buildings (nonfarm), all types.	....do.....	....do.....	....do.....	Do.
Farm construction.....	....do.....	....do.....	Expenditure surveys <sup>3</sup> ..	Agricultural Marketing Service, U. S. Department of Agriculture.
Public utilities:				
Railroad.....	....do.....	....do.....	Fiscal records.....	Interstate Commerce Commission
Telephone.....	....do.....	....do.....	....do.....	American Telephone and Telegraph Co.
Telegraph.....	....do.....	....do.....	....do.....	Western Union Telegraph Co.
Local transit.....	....do.....	....do.....	....do.....	American Transit Association.
Petroleum pipelines.....	....do.....	....do.....	....do.....	Interstate Commerce Commission.
Electric light and power.....	....do.....	....do.....	....do.....	Federal Power Commission.
Gas.....	....do.....	....do.....	....do.....	American Gas Association.
All other private.....	....do.....	....do.....	Contract awards.....	F. W. Dodge Corp. <sup>2</sup>

See footnotes at end of table.



Basis for the estimates of the value of new construction put in place, by ownership, type of construction, and source of public funds—Con.

Type of construction	Ownership	Source of public funds	Basis of expenditure estimates <sup>1</sup>	
			Type of basic data	Source of basic data
Residential buildings.....	Federal.....	Federal.....	Contract awards.....	Department of Defense.
	State-Local..	Non-Federal..	Progress reports.....	New York City Housing Authority.
	....do.....	....do.....	Housing starts.....	Bureau of Labor Statistics.
	....do.....	....do.....	Contract awards.....	Private news sources. <sup>4</sup>
Nonresidential buildings:				
	Industrial.....	Federal.....	Progress reports.....	Atomic Energy Commission.
	....do.....	....do.....	....do.....	Department of Defense:
	....do.....	....do.....	....do.....	Army—Office of Chief of Engineers.
Educational.....	....do.....	....do.....	Contract awards.....	Air Force—Air Material Command.
	....do.....	....do.....	Progress reports.....	Navy—Bureau of Yards and Docks.
	State-Local..	....do.....	....do.....	General Services Administration.
	....do.....	Non-Federal..	....do.....	Housing and Home Finance Agency.
Hospital and institutional.....	....do.....	....do.....	Contract awards.....	Do.
	Federal.....	Federal.....	Progress reports.....	Private news sources. <sup>4</sup>
	....do.....	....do.....	....do.....	Veterans Administration.
	State-Local..	....do.....	....do.....	General Services Administration.
Administrative and service.....	....do.....	Non-Federal..	....do.....	Public Health Service, Department of Health, Education and Welfare.
	....do.....	....do.....	....do.....	Do.
	Federal.....	Federal.....	Contract awards.....	Private news sources. <sup>4</sup>
	....do.....	....do.....	Progress reports.....	Federal agency supervising construction.
Other nonresidential buildings..	....do.....	....do.....	Contract awards.....	Do.
	State-Local..	Non-Federal..	....do.....	Private news sources. <sup>4</sup>
	Federal.....	Federal.....	Fiscal records.....	Federal agency supervising construction.
	....do.....	....do.....	Contract awards.....	Bureau of the Budget.
Military facilities.....	....do.....	....do.....	....do.....	Federal agency awarding contract.
	State-Local..	Non-Federal..	....do.....	Private news sources. <sup>4</sup>
	Federal.....	Federal.....	Progress reports.....	Department of Defense:
	....do.....	....do.....	Contract awards.....	Army—Office of Chief of Engineers.
Highways.....	....do.....	....do.....	Voucher approvals.....	Army—National Guard Bureau.
	....do.....	....do.....	Progress reports.....	Navy—Bureau of Yards and Docks.
	....do.....	....do.....	Fiscal records.....	Air Force—Ass't Chief of Staff, Installations.
	....do.....	....do.....	Contract awards.....	Do.
				U. S. Coast Guard.

Bureau of Public Roads U. S. Department of Public Works

## DERIVATION OF THE ESTIMATES

81

Highways .....	Federal.....	Federal.....	Fiscal records.....	Bureau of Public Roads, U. S. Department of Commerce.
	State.....	...do.....	Progress reports.....	Do.
	...do.....	...do.....	Fiscal records (no funds breakdown).	Do.
	...do.....	Non-Federal	Contract awards.....	Do.
	Local.....	...do.....	Fiscal records.....	Do.
	...do.....	...do.....	Contract awards.....	Private news sources. <sup>4</sup>
Sewer.....	...do.....	...do.....	...do.....	Do.
Water.....	...do.....	...do.....	Progress reports.....	Do.
Public service enterprises .....	Federal.....	Federal.....	Contract awards.....	Civil Aeronautics Administration, U. S. Department of Commerce.
	State-Local..	...do.....	...do.....	Do.
	...do.....	Non-Federal..	Contract awards.....	Private news sources. <sup>4</sup>
Conservation and development .....	Federal.....	Federal.....	Progress reports.....	Army—Office of Chief of Engineers.
	...do.....	...do.....	...do.....	Bureau of Reclamation, U. S. Department of Interior.
	...do.....	...do.....	...do.....	Tennessee Valley Authority.
	State-Local..	...do.....	Fiscal records.....	Federal agency supervising construction.
	...do.....	...do.....	...do.....	Bureau of the Budget.
	State-Local..	...do.....	Contract awards.....	Private news sources. <sup>4</sup>
	Federal.....	Non-Federal..	Fiscal records.....	Bureau of the Budget.
All other public.....	State-Local..	Non-Federal..	Contract awards.....	Private news sources. <sup>4</sup>

<sup>1</sup>For the methods of incorporating the various types of data into the overall expenditure estimates, see following sections of appendix B.

<sup>2</sup>plus building-permit data in the Western States, obtained from BLS.

<sup>3</sup>Nonperiodic sample surveys of farm construction expenditures. In nonsurvey years, benchmarks are moved in accordance with related economic data.

<sup>4</sup>Follow-up by questionnaire is made by BDSA on selected projects in the 11 Western States and for certain other types of projects in other parts of the country, to verify award values and starting dates. See pages 93 and 94 for list of news sources.

**NONRESIDENTIAL BUILDINGS (NONFARM).—** Separate estimates are made for each of the following types of new private nonresidential buildings: industrial; office buildings and warehouses; stores, restaurants, and garages; religious; educational; social and recreational; hospital and institutional; and miscellaneous.

Estimates of expenditures for each of these categories are derived by distributing the value of construction started each month over the period during which the work is presumed to be done. The data on the value of work to be started are based primarily on the statistics of contracts awarded in the 37 Eastern States compiled by the F. W. Dodge Corporation.<sup>3</sup> However, the following adjustments are required in the Dodge data in order to arrive at estimates of the value of work actually started throughout the country:

(1) Cancellations: A contract for construction may be canceled later or indefinitely postponed. In the Dodge reports, adjustments for cancellations and corrections are made in data for the month in which cancellations or corrections are ascertained, rather than in data for the month in which the original entry was made. Where such cancellations or corrections would significantly affect measurements of the trend of construction activity, it is necessary to carry them back into data for the month in which the contract awards were reported.

(2) Undercoverage in 37 Eastern States: An adjustment is made to allow for projects not included in the Dodge reports and for the value of architectural and engineering fees. The omissions are chiefly among smaller projects and force-account work. The adjustment, of necessity, involves considerable judgment because there has never been a complete enumeration or scientific sampling of such projects. It is based upon analyses of the techniques employed by Dodge in the collection and processing of contract-award information and upon comparison with fragmentary data developed from other sources, such as construction trade journals.

(3) Expansion to cover 11 Western States: Since the Dodge reports used cover only the 37 Eastern States, building-permit data, which are available for practically all urban areas and for numerous rural nonfarm places in the United States, are used to adjust for the 11 Western States. The percentages of the United States totals indicated in these building-permit data as being in the Western States are used as raising ratios to expand the 37-State totals to estimated United States totals for each type of private nonresidential building.

<sup>3</sup>The Dodge data are prepared monthly by the F. W. Dodge Corporation as a byproduct of its daily news reporting service. Reports are obtained by a staff of individuals who interview owners, architects, engineers, contractors, financial institutions, real estate brokers, and others able to supply reliable information on the awarding of construction contracts. Although coverage was expanded in 1956 to include the 11 Western States, the activity estimates are still based on the data pertaining to the 37 Eastern States as described.

(4) Duplication of data on public utility buildings: Offices, warehouses, and other buildings constructed by public utilities are included in the total value of construction reported by the various utilities, but are also included by Dodge in contract data for nonresidential buildings. To eliminate duplication, awards for buildings constructed by public utilities are subtracted from the total of Dodge awards for the office building and warehouse category. Thus, an office building constructed by an electric power company is classified not under nonresidential building, but under utility construction.

(5) Translation of contract awards to work started: The Dodge collection procedures produce reports of contract awards due for early start. The awards reported for a given month are therefore used as construction starts in the following month. Studies have indicated that this is a reasonable basis for estimating starts.

Estimates thus obtained of the total value of new work started are converted to estimates of the value of work put in place each month by the application of typical progress patterns. From past surveys of actual construction projects, several activity patterns have been developed showing for each type of building the estimated percentage of total cost which will be placed each month, taking into account the average size of project and the season in which work is begun.

**FARM CONSTRUCTION.**—Annual estimates of total expenditures on farm buildings and a breakdown of the total as between expenditures on operators' dwellings and expenditures on other farm structures are prepared by the Agricultural Marketing Service of the Department of Agriculture.<sup>4</sup> They are based chiefly on data from sample surveys of construction expenditures of farm operators in 1934-37, 1939, 1946, and 1949. Estimates for other years are made by interpolation and extrapolation, based in part on inference from data on farm electric lighting systems, silos, domestic water systems, etc., reported in the annual Census of Manufactures and Sale of Farm Machinery and Equipment. The bulk of the dollar amounts involved, however, for other than benchmark years represents approximations based on changes in indexes of farm construction costs and in such indicators as estimated consumption of lumber on farms, sales of building materials in rural areas, and nonfarm residential construction. The separation of estimated expenditures for maintenance and repairs from new construction expenditures is based upon relationships indicated in some of the source ma-

<sup>4</sup>As described in *Agricultural Estimating and Reporting Services of the U. S. Department of Agriculture*, Miscellaneous Publication No. 703, 1949.

material. Current monthly estimates of new farm construction are prepared by the Department of Commerce by projecting annual estimates for the preceding year on the basis of the trend of farm income and applying a seasonal pattern to the annual totals. These patterns represent essentially judgments as to the influence of various factors throughout the year.

**PUBLIC UTILITIES.**—Estimates of expenditures are made basically from financial data showing outlays for construction. A minor adjustment made in these figures is the reallocation of overhead (normally reflected by the December financial statement) to all months of the year. Since financial reports usually are completed sometime after the close of a year, it is necessary to extrapolate from the previous year's data in order to provide preliminary monthly estimates. For all types of public utilities except the telephone and telegraph group, the preliminary monthly estimates are made by the use of seasonal patterns which phase out the extrapolated annual totals. These annual and monthly estimates are subject to revision when complete financial data become available. Sources of financial statistics and bases used for extrapolation in preparing estimates of construction by various major classes of privately owned public utilities are described below:

**Railroads.**—Final monthly and annual estimates are basically derived from a summary of construction expenditures prepared by the Interstate Commerce Commission from reports to that agency by all Class I railroads. Construction expenditures by Class I railroads, which account for over 90 percent of total expenditures by railroads, are adjusted to allow for construction by all classes of railroads.

**Local Transit.**—The Transit Fact Book, annual publication of the American Transit Association, provided the basic source for estimates of capital and maintenance expenditures of transit companies in the United States up to 1954. Monthly extrapolations were based on the trend shown by other public utilities. In recent years estimates have been made by arbitrarily maintaining activity at the 1954 level since the Association no longer maintains the records previously used for this purpose.

**Petroleum Pipelines.**—Annual reports by oil companies covering their capital expenditures filed with the Interstate Commerce Commission form the primary basis for final estimates. These reports must be adjusted to eliminate purchases of existing lines and to allow for expenditures of companies not required to file reports with the Interstate Commerce Commission.

**Electric Light and Power.**—Annual reports to the Federal Power Commission by Classes A

and B electric utilities are used to prepare final estimates. These reports are adjusted to exclude purchases of existing facilities and to allow for construction by small companies not required to file reports.

**Gas.**—Annual data published by the American Gas Association are the basis for final estimates. They cover both manufactured and natural gas facilities and they include gas transmission lines as well as local distribution lines. The A.G.A. data are adjusted to eliminate manufacturing and pumping machinery and equipment purchases.

**Telephone and Telegraph.**—Monthly estimates of new construction expenditures by the entire telephone industry in the United States are used as prepared by the American Telephone and Telegraph Company. The A. T. & T. summarizes reports from member companies of the Bell System and includes an estimate of construction by independent companies. Monthly data for construction expenditures by the Western Union Telegraph Company are also used.

**ALL OTHER PRIVATE.**—Expenditures are estimates from the same sources, and in the same general manner, as described above for nonresidential building.

### Public Construction

Estimates of the value of public construction put in place are developed by deriving separate estimates for three major components: (1) projects owned and financed by State and local governments (e.g., State, county, and municipal); (2) projects owned by State and local governments and financed wholly or in part with Federal Government funds (federally aided); and (3) projects owned and financed by the Federal Government. In the following section, the method of deriving the put-in-place estimates for each of these components will be described independently, for each type of construction.

For much of the first group—projects owned and financed by State and local governments—the work put-in-place estimates are derived by the procedure described in the following paragraph. For each type of construction wherever this procedure applies it will be denoted by the phrase, “*based on phasing of contract-award data.*” Where other methods are used, these will be described.

**STATE AND LOCALLY OWNED AND FINANCED PROJECTS.**—Except where otherwise indicated, the work put-in-place estimates are based on contract-award data compiled by the Business and Defense Services Administration which are derived in two parts: (1) F. W. Dodge Corporation information on contract awards in the 37 Eastern States is modified by similar information from



other construction news sources. (2) in the 11 Western States the contract-award data are obtained from numerous public and private construction news sources.<sup>5</sup> In both instances incomplete or questionable data are checked, by questionnaire, with the awarding agency. These contract-award totals are adjusted by the Bureau of Labor Statistics for undercoverage and duplicate reporting, and then converted into a work-started series to which activity patterns are applied. The monthly figures resulting from the application of these patterns may be further adjusted to reflect normal seasonal movement, and unusual influences affecting the current month, based on judgments.<sup>6</sup>

**RESIDENTIAL BUILDINGS.**—A significant proportion of expenditures for State and local public housing (including low-rent housing for which rents are subsidized by the Federal Government) is for projects of the New York City Housing Authority, from which construction expenditures data are collected monthly. For all other State and locally owned projects, estimates are derived by the application of patterns to basic data collected from the Housing and Home Finance Agency (in the case of projects receiving Federal construction or planning loans or low-rent subsidies); State agencies; private construction news publications; and building-permit reports.

Expenditures data for housing at Federal atomic energy facilities are obtained on progress reports from the Atomic Energy Commission. Expenditures for the other federally owned housing included in the dollar estimates for public residential building are derived by distributing contract-awards information, obtained from the appropriate Federal agencies.

Estimates for public nonhousekeeping residential construction, principally college dormitories, are based on phasing of contract-award data.

#### NONRESIDENTIAL BUILDINGS

**Industrial.**—Federally owned and financed industrial plants were of minor importance before World War II. During and since that period, construction of such facilities has fluctuated widely. At the present time, the major portion of the annual expenditures included in the industrial category is for construction of the facilities of the Atomic Energy Commission.<sup>7</sup> The remainder is for plants

built by the military establishment. In all cases, except for the Department of the Navy, expenditures estimates are based on monthly construction progress reports prepared by the administering agencies. For naval industrial construction, expenditures are estimated by applying activity patterns to contract awards.

The relatively small amounts of non-Federal public industrial construction are included in "miscellaneous nonresidential buildings" by the method described below for non-Federal nonresidential building.

**Educational.**—Almost all public expenditures in this category are for projects owned and financed by State and local school authorities for which work put-in-place estimates are based on phasing of contract-award data.

The expenditures for State or locally owned projects which are federally aided<sup>8</sup> are obtained from progress reports received from the Housing and Home Finance Agency.

Expenditures on federally owned projects are obtained from progress reports received from the Public Buildings Service.

**Hospital and institutional.**—Most public expenditures for this category are for State and locally owned and financed projects, for which work put-in-place estimates are based on phasing of contract-award data.

The federally owned component reflects construction of hospitals under the Veterans Administration and an occasional project under the Public Buildings Service. Expenditures estimates are based on progress reports from the respective agencies.

Expenditures on projects which are State and locally owned but partly financed with Federal funds<sup>9</sup> are estimated from progress reports collected by the State agencies supervising the program and submitted to the U. S. Department of Health, Education and Welfare.

**Administrative and service.**—Expenditures for work put in place for State and locally owned and financed projects, which account for nearly all outlays for this category, are based on phasing of contract-award data.

Federally owned project expenditure estimates are based primarily on progress reports compiled by the supervising Federal agency.

There are no Federal-aid projects in this category.

<sup>5</sup>See page 94 under State and locally owned contract awards, for a list of the construction news sources being used.

<sup>6</sup>See page 77 and footnote 1 for a description of the general methods for translating contract-award data to an activity basis.

<sup>7</sup>Although a significant portion of AEC construction is for scientific or developmental facilities, the separation of these from the industrial types of facilities is not feasible at this time for security reasons.

<sup>8</sup>The program authorized by Public Law 815, 81st Congress, to provide assistance to local educational agencies for construction of schools in areas affected by Federal activities. The program is administered by the Office of Education, which uses the services and facilities of the Housing and Home Finance Agency to carry out its responsibilities.

<sup>9</sup>The construction program authorized by the Hospital Survey and Construction Act of 1946, Public Law 725, 79th Congress.



*Social and recreational.*<sup>10</sup>—Work put-in-place estimates for this category, which is entirely State and locally owned and financed, are based on phasing of contract-award data.

*Miscellaneous nonresidential buildings.*<sup>10</sup>—The work put-in-place estimates for State and locally owned and financed projects in this category, which form the bulk of the total, are based on phasing of contract-award data.

Work put-in-place estimates for federally owned projects in this category are based in part on progress reports from the Federal agency supervising construction and in part on a combination of contract information reported by the Federal agency involved and annual expenditure data from the budget of the United States.

There are no Federal-aid projects in this category.

**MILITARY FACILITIES.**—Detailed progress reports are available in the offices of the agency supervising the work. Summaries of these reports supply the basis for most of the expenditures estimates. A variant of the usual progress report is provided by the Department of the Navy, which supplies a monthly summary of vouchers approved for payment. This occasionally requires adjustment to correct for the lag in time between performance of work, and payment for it.

In the case of certain programs consisting of a large number of small projects, generating a relatively small expenditures total, a monthly tabulation is not feasible. In these cases, estimates are based on annual fiscal data (provided by the agency or presented in the budget of the United States), or on a distribution of contract awards.

**HIGHWAYS.**—Expenditures estimates are the sum of five components—expenditures on the Federal-aid Highway Program,<sup>11</sup> on State highways (including toll facilities) independent of the Federal-aid program, on county roads, on municipal streets, and on roads on Federal lands. Satisfactory monthly data are currently available for only one of these components—the Federal-aid program—which in 1956 accounted for slightly less than one-third of total highway work. For this program, estimates of the value of work actually placed each month are based on observations by engineers of the Bureau of Public Roads, U. S. Department of Commerce. The latter agency tabulates these data for internal use, primarily to determine the "earnings" of States under the program, and supplies

pertinent aggregates for the expenditures estimates, showing Federal grants separately. These grants are added to the expenditures for highway construction on Federal lands, derived in the same manner as described below for local work, to obtain total Federal expenditures for highway construction.

Estimates of the value of State highway construction financed independently of the Federal-aid program are based on a spread of contract-award summaries, inflated primarily for engineering and design costs, and adjusted for seasonality using data from the federally aided highway system.

For county road and urban street work, on which contract construction is considerably less important, the preliminary monthly estimates are in effect extrapolations of the previous year's levels, following the usual seasonal pattern on highway work. The projection of level is based chiefly on forecasts by the Bureau of Public Roads of expected levels of local construction, and the trend in awards for local work.

For final estimates, the total annual expenditures for each of the four governmental levels of highway work—Federal, State, county, and urban—are established from the BPR annual summaries of special financial reports submitted by the State Highway Departments. These annual totals become available several months after the close of the year to which they refer. They are phased by month, by use of the monthly reported expenditures on the Federal-aid program in a manner similar to that mentioned above for the independently financed State highway work.

**SEWER AND WATER SYSTEMS.**—Work put-in-place estimates for these categories, which are entirely State and locally owned and financed, are based on phasing of contract-award data.

**PUBLIC SERVICE ENTERPRISES.**—This category contains a number of different types of work—electric light and power, airfields, local transit, marine terminals, and other miscellaneous projects which, with the exception of airfields, are entirely State and locally owned and financed. For all of these, the work put-in-place estimates are based on phasing of contract-award data.

However, most State and locally owned airfield construction in recent years has been financed in part with Federal funds, under provisions of the Federal Airport Act of 1946. Estimates for this segment are obtained from progress reports received from the Civil Aeronautics Administration.

**CONSERVATION AND DEVELOPMENT.**—Three agencies are principally responsible for the usual and continuing Federal work in this area: the Civil Works Division of the Office of the Chief of Engineers, the Bureau of Reclamation, and the Tennes-

<sup>10</sup>"Social and recreational" and "miscellaneous nonresidential" are combined into one group as "all other nonresidential buildings" in the monthly statistics.

<sup>11</sup>The construction program undertaken under the terms of the various Federal-aid highway acts which provide Federal funds to assist the States in road construction.

see Valley Authority.<sup>12</sup> A fourth agency, the St. Lawrence Seaway Development Corporation, became important in this field during construction of the Seaway phase of St. Lawrence River development beginning in 1955. From each of these agencies, summaries are received each month covering expenditures accruing during the previous month. These accruals reflect primarily the value of work actually put in place as determined by site observations of Government engineers.

Monthly data of this kind are not collected in the case of most of the agencies doing relatively small amounts of conservation work, such as the Soil Conservation Service and the International Boundary and Water Commission, United States and Mexico. For these agencies, annual expenditures data are obtained from the Budget of the United States, and distributed by months on the basis of the trends shown by the major agencies.

The relatively small amount of work put in place on State and locally owned and financed projects is based on phasing of contract-award data.

**ALL OTHER PUBLIC.**—Expenditures on State and locally owned and financed projects are based on phasing of contract-award data.

Expenditures on federally owned projects are estimated from the annual figures in the budget of the United States.

#### NEW CONSTRUCTION PUT IN PLACE— SEASONALLY ADJUSTED

For the period 1939-46, seasonal indexes were computed by use of the ratio-to-moving-average method. In order to arrive at a typical ratio for each month, the highest and lowest ratio values obtained for each of the 12 calendar months were excluded in averaging the ratios of the actual monthly figures to the 12-month moving average. No seasonal indexes were made for military facilities in this period.

From 1947 to date the seasonal indexes have been computed at the Bureau of the Census on its Univac computer employing the method referred to as

"Seasonal adjustment by method II." This programmed method is an adaptation and elaboration of the standard ratio-to-moving-average method and yields moving seasonal factors.<sup>13</sup>

For individual types of construction, seasonally adjusted values have been derived by dividing the unadjusted estimates by corresponding seasonal indexes. Seasonally adjusted series for total new construction, total private construction, and total public construction have been obtained by adding the seasonally adjusted figures for the various components (see Part I, table 7).

The separate seasonal indexes computed for 1956 are presented in Part I, table 8. Indexes for prior years are available on request.

#### NEW CONSTRUCTION PUT IN PLACE— PHYSICAL VOLUME

The cost indexes used in adjusting dollars actually spent to a constant value in terms of 1947-49 prices are listed in table 13. The choice of indexes used as deflators was based on an examination of the descriptions of all available cost indexes and not only those described in this appendix, under Construction cost indexes. Each index selected was the one which appeared most nearly to approximate in coverage and composition the type of construction to be deflated. Other factors being equal, national indexes were given preference over regional or local indexes. Since the constant-price series is intended to be a rough measure of the physical volume of new construction, in the period from 1933 to 1943 expenditures for work relief construction were deflated for the lower rate of efficiency that prevailed on such projects.

The value of new construction in 1947-49 prices, shown in Part I, table 9, was obtained by adding the constant-price figures for the various components shown in tables 10 and 11. The data for each of the types of construction in table 12 were obtained by dividing the monthly current activity estimates

<sup>12</sup>Expenditures for TVA have been retained in the conservation and development category, even though for several years the construction activities of this agency have been directed toward the provision of steam electric, rather than hydroelectric, generating capacity.

<sup>13</sup>A complete description of the method is available in a paper "Electronic Computers and Business Indicators" by Julius Shiskin of the Bureau of the Census. This paper was published in the *Journal of Business* (University of Chicago) for October 1957 and reprinted as *Occasional Paper No. 57* by the National Bureau of Economic Research, New York, N. Y.

shown in table 5 by the appropriate monthly cost index values. For the years 1915-38, the annual figures shown in tables 2 and 3 were used together with respective annual cost index values.

### MAINTENANCE AND REPAIRS

Estimates of expenditures for maintenance and repairs are provided annually for major classifications of structures and facilities. The estimates are derived from many statistical series compiled for purposes other than measuring these outlays. Details are presented to the extent that the basic data permit. Because the measurement of the expenditures must await the preparation of source statistics, estimates for a specific year are not available until 6 to 9 months after the end of that year.

For each type of structure, utility, and service facility, the data include both public and private expenditures. Public expenditures are Federal, State, and local outlays as well as those made by quasi-governmental institutions such as water districts and port authorities. The available sources of information are inadequate for a breakdown between public and private expenditures. The following tabulation, however, offers an approximate basis for appraisal of the publicly financed portion of each expenditure figure for 1952:

Type of structure, utility, or service facility	Approximate percentage of maintenance and repair expenditures which are publicly financed
Residential buildings (nonfarm).....	2
Nonresidential buildings.....	130
Farm buildings.....	0
Public utilities.....	0
Military facilities.....	100
Conservation and development.....	100
Sewage disposal and water supply.....	85
Highways.....	100
All other.....	75

<sup>1</sup>Chiefly schools.

### RESIDENTIAL BUILDINGS (NONFARM)

This series is the summation of the annual expenditures made by residents of owner-occupied dwelling units, residents of tenant-occupied dwelling units, and owners of tenant-occupied dwelling units. For each of the three types of expenditures sources, the estimate is derived from the multiplication of an average expenditure figure by the applicable number of either owner-occupied or tenant-occupied dwelling units.

The estimates of the number of owner-occupied and tenant-occupied dwelling units are based on U. S. Bureau of the Census housing data for 1947 and 1950. For 1948, 1949, 1951, and subsequent years, interpolations and extrapolations of the Census housing data are made using Census household population data adjusted by joint Bureau of the Census-Bureau of Agricultural Economics estimates of farm population to remove farm housing units from the owner-occupied category. Vacant nonseasonal dilapidated units are excluded from these estimates.

The annual average expenditures made by residents of owner-occupied dwelling units are available from studies conducted by the Board of Governors of the Federal Reserve Board and by the U. S. Bureau of Labor Statistics. For each of the years since 1947, the Federal Reserve Board has sponsored surveys dealing with consumer finances. The surveys yield for each year, with the exception of 1951, the average expenditure per owner-occupied dwelling unit for not only maintenance and repairs but also additions and alterations. A consumer expenditure survey for 1950 by the Bureau of Labor Statistics offers substantially similar results except that this undertaking provides a separate figure for maintenance and repairs as distinguished from additions and alterations. The Bureau of Labor Statistics data, therefore, make available a ratio of maintenance and repair expenditures to additions and alterations outlays. The application of this ratio to the total figures of the Federal Reserve Board survey provides annual estimates of maintenance and repair expenditures per nonfarm owner-occupied dwelling unit.

The annual average expenditures made by residents of tenant-occupied dwelling units are derived from a 1950 expenditure estimate calculated from the Federal Reserve Board survey. The 1950 figure is extended back to 1947 and projected to the current year on the basis of the Bureau of Labor Statistics index of mixed-paint prices. Mixed paint is assumed to be the principal product purchased by tenants for the repair and maintenance of their rented dwelling units. For the years subsequent to 1952, the series is extrapolated by the application of year-to-year percent changes in average tenant expenditures as derived from unpublished Federal Reserve Board data.

Annual average outlays of owners of tenant-occupied dwelling units are obtained from a 1950 survey conducted by the U. S. Office of the Housing Expediter. The 1950 estimate is extended back to 1947 and projected forward using the year-to-year changes depicted by average hourly earnings of workers employed by building construction contractors. This is a regularly released series of the Bureau of Labor Statistics. In this case the assumption is that labor costs are the chief ingredient of this particular type of repair and maintenance

expenditure, and the annual changes in hourly earnings result in similar changes in expenditures.

### NONRESIDENTIAL BUILDINGS

Basic accounting records seldom distinguish the repair and maintenance expenditures for buildings from those for machinery and equipment or from operating expenses such as those for fuel, utilities, and related services. Under these circumstances, no single method of derivation offers estimates which are not open to considerable question. Accordingly, the figures presented result from one of three procedures and are reliable to the extent that two partially independent judgments corroborate a third judgment.

The statistics presented for this category represent the summation of the estimated expenditures for industrial, commercial, and institutional buildings. The industrial category is derived from itemized repair expenses submitted to the Internal Revenue Service on corporate income tax returns covering manufacturing activities. Expenses covering plant as distinguished from equipment are isolated by using factors for each industry obtainable from U. S. Bureau of the Census surveys on expenditures for new plant and equipment. Cost analyses for office buildings presented in the Experience Exchange Reports of the National Association of Building Owners and Managers are the bases for evaluating the maintenance and repair expenditures for commercial building. Annual reports by State school agencies to the U. S. Office of Education provide the data for deriving the expenditure levels for institutional buildings.

The two supporting methods of estimating maintenance and repair expenditures for this category involve the more widespread applications of data provided by the Experience Exchange Reports and estimates based on the U. S. Office of Education statistics. One technique is that of applying to all nonresidential buildings the expense per square foot of floor space incurred in school buildings. The other is to assume that the maintenance and repair expense per square foot of floor space is proportional to the construction cost per square foot for each type of construction within the category. Using the office building expenses in the Experience Exchange Reports as the basis for evaluating the expenses for other types of buildings, the total expense is obtained by multiplying the unit expenses by the estimated number of square feet of floor space for each type of construction and summing these products to obtain the total for all nonresidential buildings.

### FARM CONSTRUCTION

Annual estimates of expenditures for the maintenance and repair of farm buildings are derived from total construction outlays for farm buildings estimated by the Agricultural Marketing Service of the

U. S. Department of Agriculture on the basis of sample surveys in 1934-37, 1939, 1946, and 1949. Estimates for the other years result from interpolations, extrapolations, and inferences from data on farm machinery and equipment sales, changes in farm construction cost indexes, indicators of lumber consumption on farms, estimates of building material sales in rural areas, and measures of nonfarm residential construction activity. The sample survey data for the benchmark years are probably adequate to provide the means for distinguishing between expenditures for operators' dwellings and those for service buildings. The separation of expenditures for maintenance and repairs from those for new construction is based on relationships indicated in the sample surveys and other collateral sources.

### HIGHWAYS

The series provided for highways is obtained without adjustment from Highways Statistics, an annual publication of the Bureau of Public Roads, U. S. Department of Commerce.

### PUBLIC UTILITIES

As indicated below, the principal sources of information for the derivation of maintenance and repair expenditures by the public utilities are the various regulatory Government commissions. These commissions compile such data from financial reports submitted by the various public utilities engaged in interstate commerce. In the case of local transit expenditures, trade association statistics are used as primary information. For most types of public utilities the statistics available from the regulatory commissions have to be adjusted to take into account those expenditures which are not reported because of jurisdictional limitations of the Federal Government.

The maintenance and repair series for the public utilities is characterized by the inclusion of overhead items which are directly attributable to maintenance and repair operations. Thus, the figures include diverse items such as those covering insurance, superintendence, tools, machinery, and depreciation.

The following provides in detail the procedures followed in deriving the maintenance and repair expenditures for each of the public utilities:

(1) RAILROADS.—The estimates represent expenses for maintenance of ways and structures since 1915 as released by the Interstate Commerce Commission. The operations covered are those of Classes I, II, and III railroads, electric railroads, switching and terminal companies, express companies, and the Pullman Company. Any railroad companies omitted from the tabulation are negligible insofar as they affect the data.

(2) LOCAL TRANSIT.—Through 1953 the series was taken without change from the data published



in the annual Transit Fact Book<sup>14</sup> as expenses for maintenance of ways and structures. For the more recent years not covered by this source judgment estimates were used.

(3) PETROLEUM PIPELINES.—The maintenance and repair expenses are developed from Interstate Commerce Commission data. Published information offers only annual expenditures for maintenance of plant and equipment by pipelines reporting to the ICC. The construction repair and maintenance segment is extracted by the application of annual factors derived from detailed reports submitted by nine large pipeline companies which own two-thirds of all lines regulated by the ICC. The factors are ratios of construction repair and maintenance expenses to plant and equipment repair and maintenance expenses. Spot checks confirmed the validity of the factors insofar as they apply to the smaller companies. The adjusted figures are then inflated to represent the experiences of all pipelines, those outside of ICC jurisdiction as well as those within it. The inflating factor is based on the relationship between total mileage of pipeline as estimated by the Department of Interior, Bureau of Mines, and the mileage covered by the ICC reports.

(4) ELECTRIC LIGHT AND POWER.—The estimates are derived from the detailed reports submitted by private electric light and power companies to the Federal Power Commission. The figures are compilations of those accounts falling under the construction repair and maintenance category. In the case of general property upkeep, accounting for less than 5 percent of total repair and maintenance expenditures, it is necessary to use a factor based on the experience of the ten largest companies representing about one-third of the industry to break out construction maintenance and repairs from total maintenance and repair expenditures. The expenses applicable to public light and power appear in the "all other" category.

(5) GAS.—Reports submitted to the Federal Power Commission by the gas companies are the basis for this series. The estimates are summations of accounts in the category of construction repair and maintenance. The experience of the eight largest companies is used to break down the "general distribution" maintenance account which is not given in adequate detail. The eight companies reflect more than one-third of the general distribution account for the industry. In order to cover the operations of all gas companies it is necessary to inflate the data from the Federal Power Commission to account for those companies which are not under Federal regulation. The procedure of inflation is that of applying the ratio of total annual revenue to the annual revenue of those companies under Govern-

ment jurisdiction. Total revenue estimates are available in Gas Facts,<sup>15</sup> an annual publication.

(6) TELEPHONE.—Repair and maintenance expenditures by telephone companies are derived from Federal Communications Commission reports. Outlays by the Bell System are adjusted on the basis of investment in telephone plant to reflect the outlays by all telephone companies for maintenance and repair to outside plant, buildings, and grounds.

(7) TELEGRAPH.—The series is the sum of the expenditures by wire telegraph and ocean cable carriers and radiotelegraph carriers. Only operations in the continental United States are included. Using Federal Communications Commission reports, the experience of the Western Union Company, representing most of the wire telegraph and ocean cable carrier operations, is inflated to represent all carriers. Similarly the experience of RCA and Mackay, representing most of radio and telegraph carrier operations, is inflated to represent all carriers. For each of these companies, the reports provide precise maintenance and repairs expenditures as described by specific accounts.

#### MILITARY FACILITIES

Military and naval expenditures for maintenance and repair cover the work done by the Departments of the Army, Navy, and Air Force in the continental United States. The data are derived directly from Department of Defense budget records and pertain only to those activities directly associated with repair and maintenance of real property. The budget data are adequate to provide estimates back to 1921. No specific information is available for the years prior to 1921; however, for those years the "all other" classification includes these outlays.

#### CONSERVATION AND DEVELOPMENT

The maintenance and repair expenditure series applies to the civil works projects of the Department of the Army Corps of Engineers. The data are prepared by that agency on a fiscal year basis. The conversion to the calendar year basis was performed by dividing each fiscal year in two and adding the appropriate halves to make up each calendar year.

Expenditures not included in this series are those made on conservation and development projects by the Department of Interior's Bureau of Reclamation; the Tennessee Valley Authority; and agencies of State governments. Although not sufficiently precise for inclusion in this category, available records of the Bureau of Reclamation show that the maintenance and repair expenditures on its conservation and development projects do not exceed \$5 million annually. The outlays by the TVA as item-

<sup>14</sup>Transit Fact Book, American Transit Association, New York, N. Y.

<sup>15</sup>Gas Facts, American Gas Association, New York, N. Y.



ized in its annual report are less than \$1 million annually which is not sufficiently significant for inclusion in this series. No data are available on State and local expenditures.

### SEWER AND WATER SYSTEMS

The Bureau of the Census data covering finances of State and local governments yield annual expenditures for maintenance, repairs, and operation of publicly owned water supply systems in cities with populations in excess of 25,000. On the basis of the 1952 survey which included all cities regardless of size, it is estimated that those of 25,000 or more persons account for 51 percent of the total population in all cities with public systems. Accordingly, the public expenditures of the larger cities are estimated to be 51 percent of total public outlays. From studies made by the Water and Sewerage Industry and Utilities Division, U. S. Department of Commerce, repair and maintenance expenditures account for two-thirds of the total spent for repairs, maintenance, and operations. The application of these factors provided the expenditures for publicly owned systems which according to the Water and Sewerage Industry and Utilities Division, account for five-sixths of all water supply outlays.

The maintenance and repair expenses incurred for sewerage systems are calculated from data compiled by the Bureau of the Census and from studies conducted by the Water and Sewerage Industry and Utilities Division. The Bureau of the Census annually releases data covering the maintenance, repair, and operations activities of publicly owned sewage and garbage collection systems in cities with populations in excess of 25,000. In 1952, the statistics showed that 21 percent of such expenditures were for sewage and 79 percent for garbage disposal. Studies made by the Water and Sewerage Industry and Utilities Division indicate that sewerage-systems expenses in cities of less than 25,000 population are equivalent to 60 percent of those of the systems in the larger cities. Furthermore, the studies show that outlays of privately operated sewerage systems account for 10 percent of total outlays. Finally, the studies reveal that maintenance and repair expenditures constitute 80 percent of total maintenance, repair, and operations expenses. The application of these relationships renders the estimates for sewage disposal systems.

### ALL OTHER

This category comprises the "all other" classification of both public and private construction, miscellaneous public service enterprises, and those conservation and development projects outside of the Corps of Engineers. For the years from 1915 through 1920, military and naval types of construction are also included.

This series, a residual one, is included only to provide total maintenance and repairs estimates which correspond in scope with the estimates of new construction. In terms of physical volume of construction, this category comprises approximately 2 percent of the other types of construction. Accordingly, 2 percent of the total maintenance and repairs expenditures for other types of construction was assumed to be the appropriate value for this classification.

## CONSTRUCTION COSTS

### CONSTRUCTION COST INDEXES

The following is a description of the indexes contained in tables 14 and 15:

**DEPARTMENT OF COMMERCE COMPOSITE COST INDEX.**—A combination of various indexes weighted monthly by the current relative importance of the major classes of construction. It is computed by dividing the total estimate of new construction activity in current prices by the total expressed in 1947-49 prices. Since the total in 1947-49 prices is obtained by adding the estimates for the separately deflated classes of construction, the composite cost index is the equivalent of a variably weighted index, reflecting changes not only in the component indexes, but also in the relative importance of the major classes of construction which are used as weights. In the computation of the monthly composite cost index, the shift in the relative importance of the major classes of construction due to their different seasonal movements is eliminated through the use of seasonally adjusted activity estimates. Beginning in 1939 the annual composite index is an average of the 12 monthly indexes. The cost indexes used for calculating the construction activity series in 1947-49 prices and thus entering into the composite index are listed in table 13 on page 53.

**AMERICAN APPRAISAL COMPANY INDEX.**—Compiled on the basis of a detailed bill of quantities of material and labor (skilled and unskilled) used in the construction of typical wood frame, brick-wood frame, brick-steel frame, and reinforced concrete buildings in 30 representative cities (24 cities prior to 1925). The index covers the structural portion of the buildings, but excludes labor and materials prices for plumbing, heating, lighting, sprinklers, and elevators. Because the index is designed to reflect normal average conditions, it does not reflect overtime or bonus payments to labor, or temporary abnormally high or low pricing conditions. Workmen's compensation, liability insurance, unemployment insurance, and old-age pension costs are included, and the index allows for contractor's overhead and profit. It also incorporates an adjustment factor

for productivity. Material and labor costs are recomputed monthly from average prices and wages, supplemented by appraisers' investigations and data from other sources.

**ASSOCIATED GENERAL CONTRACTORS INDEX.**—A combination of indexes based on wage and materials price data reported as of the 15th of each month by 12 geographically selected chapters of the Association, and weighted 40 percent for wages and 60 percent for materials. Wages of hod carriers and common laborers are used in computing this index; those of skilled laborers are not included. The materials prices used are those for sand, gravel, crushed stone, portland cement, common brick and lumber (all weighted equally); hollow tile (weighted one-half); and structural and reinforcing steel (together weighted one-half). Taxes and employee benefit costs are not reflected in this series. There is no adjustment for changes in productivity.

**E. H. BOECKH AND ASSOCIATES INDEXES.**—Based on separate computations for 10 types of buildings in 20 cities (comparable indexes are currently available from the compilers for a total of more than 40 cities). The materials priced in each city include common brick, common lumber, portland cement, structural steel, heating and plumbing equipment, paint, glass, and hardware. In deriving the labor segment of the index, actual wage rates are used, and the rates of both common and skilled labor are included. The index reflects the cost of State and local sales taxes and social security payroll taxes. A "labor efficiency" correction is used, based on the organization's study made each month of labor conditions in each area. The index is also adjusted for labor shortage. An unweighted arithmetic average of the individual indexes for the 20 cities for each of the 10 types of buildings has been computed and these have been further consolidated into three series as follows: (1) Boeckh Residential Index—an unweighted average of the indexes for frame residences and for brick residences; (2) Boeckh Apartment, Hotel and Office Building Index—an unweighted average of the indexes for brick and wood, brick and concrete, and brick and steel apartment, hotel, and office buildings; and (3) Boeckh Commercial and Factory Buildings Index—an unweighted average of the indexes for frame, steel, brick and wood, brick and steel, and brick and concrete commercial and factory buildings.

**ENGINEERING NEWS-RECORD INDEXES.**—Covering separately general construction costs and building construction costs. The index of general construction cost is computed on the basis of a hypothetical block (unit) of construction requiring 6 barrels of portland cement, 1.088 M foot board measure of 2" x 4" lumber, 2,500 pounds of structural steel, and 200 hours of common labor. The weights of these 4 components reflect their relative importance in the national economy in

1913. To adjust price changes of the components, the following were used: (1) For steel, the base price of structural shapes at Pittsburgh until August 1938, and since then a weighted average of steel prices at Pittsburgh, Gary, and Birmingham; (2) for cement, the consumers' net price, f.o.b. Chicago until July 1948, and subsequently the ENR 20-city average of bulk cement prices; (3) for lumber, wholesale prices at New York for 12" x 12" long leaf yellow pine until 1936, and afterwards a composite 20-city price average of 2" x 4" Douglas fir and southern or local pine in carload lots; and (4) for common labor, the rate paid in the steel industry from 1913 through 1920, and since 1920 the ENR 20-city average of wage rates in force in the construction industry. In computing the index of building construction cost, the firm uses the same materials components as for the general construction cost index, combined with 68.38 hours of skilled labor. The indexes are not adjusted for changes in materials availability, competitive conditions, efficiency of plant and management, productivity, or related factors.

**AGRICULTURAL MARKETING SERVICE FARM CONSTRUCTION COST INDEXES FOR DWELLINGS AND SERVICE BUILDINGS.**—A weighted index of farm wage rates and prices paid for materials. In compiling the index of farm dwelling construction costs, prices paid by farmers for building materials are given a weight of 73 percent, farm wage rates a weight of 27 percent. For farm service building construction, the corresponding weights are 78 and 22 percent. The wages paid by farmers for labor for building construction and repairs are higher than the wages paid for ordinary agricultural labor, but they probably fluctuate more nearly like farm labor wage rates than like urban union wage rates.

**GEORGE A. FULLER COMPANY INDEX.**—Composite of 36 major cost elements, in three commercial type buildings, including structural elements, and elevators, wiring, heating, plumbing, and ventilating. These cost elements are divided into units of measure (e.g., cubic yards of excavation, thousands of brick), and studies based upon job-cost reports are made at 3-month intervals to determine the current cost of putting each unit of measure into place. The job-cost reports show the number of manhours of labor (skilled and unskilled) utilized, and this information is used to adjust the index for changes in productivity. The series reflects employee benefit costs. The figures shown in table 14 are based upon annual averages (or irregularly compiled indexes) computed and published by the Engineering News-Record.

**HANDY'S PUBLIC UTILITY CONSTRUCTION COST INDEXES** (compiled by Whitman, Requardt and Associates, Baltimore, Maryland).—Indexes measuring changes in construction costs of utility

buildings, gas plants, and electric plants. Cost trends of reinforced concrete utility building construction and brick utility building construction are reported semiannually by 6 geographic regions. For materials of a local nature, prices are obtained from standard publications, such as the *Engineering News-Record* and *Iron Age*, and these are checked with actual prices paid by various operating utilities. For major items of equipment, such as gas holders, meters, steam generators, turbo generators, etc., quotations are obtained from nationally known manufacturers and checked with prices actually being paid by operating utilities. Labor costs are computed from rates obtained from utilities, government sources, unions, and builders' associations; the six trades considered are bricklayers, carpenters, electricians, structural-iron workers, plumbers, and common labor. The indexes do not reflect tax payments or any of the fringe benefits which employees may receive. A single index is computed by the Department of Commerce by averaging the figures for the first, middle, and end of each year for each region and then combining the regions for a United States average. Cost trends of gas plant construction and of steam-operated electric plant construction are also reported semiannually by geographic regions. A single index for each is computed in the same manner as for utility buildings.

**INTERSTATE COMMERCE COMMISSION INDEXES.**—Indexes of railroad construction costs and telephone and telegraph construction costs compiled by the Engineering Section of the Bureau of Valuation of the Interstate Commerce Commission. The railroad construction cost index is the weighted average for the entire United States of 31 separate indexes for individual operations important in railroad construction. Separate indexes covering items such as grading, tunnel excavation, bridges, ballast haul, and tracklaying and surfacing, were developed largely from analysis of major construction contracts covering a period of more than 30 years. The indexes for materials accounts—such as ties, rails, other track material, ballast, and fences—were based on studies of carriers' returns to Valuation Order 14, joint studies made with the various railroad committees, well-known engineering and trade publications, contracts covering major construction projects over a period of 30 years, and other information furnished by individual carriers. The telephone and telegraph lines construction cost index is road account number 26, "telegraph and telephone lines," of the railroad construction index.

**BUREAU OF PUBLIC ROADS HIGHWAY INDEX.**—A measure of highway construction cost changes based upon a record maintained by the Public Roads Administration of quarterly variations in contract unit bid prices extending back to 1922.

Cost indexes are based on average annual construction on State and Federal-aid highway systems during the 5 years 1925-29, inclusive. Average costs for these years are taken as 100 percent. For this period the total quantity and contract cost of each of the principal cost controlling contract items were summarized and divided by the total mileage of construction. This operation provided average quantities of each type of work involved per average gross or composite mile of construction. The average mile of construction during this period involved the movement of 17,491 cubic yards of earth, the placing of 3,726 square yards of paving, 16,000 pounds of reinforcing steel, 4,325 pounds of structural steel, and 68 cubic yards of structural concrete. Since both unit prices and construction volumes vary not only from State to State but also from year to year, the percentage of each item contributed during this 5 year period by each State was adopted as the contributing State base. The current cost index thus indicates the relative costs at which the average quantities placed per mile in 1925-29, with the same State distribution, could be replaced today at current contract bid prices. The Department of Commerce has extrapolated this series back from 1922 to 1915 by means of a weighted average of the Interstate Commerce Commission indexes for Account Numbers 3, 5, 6, and 11.

**TURNER CONSTRUCTION COMPANY INDEX.**—A measure of building construction costs in eastern cities. The index is based on the firm's cost experience with respect to labor rates, materials prices, competitive conditions, efficiency of plant and management, and productivity. The series reflects the payment of sales taxes and employee benefit costs.

#### WHOLESALE PRICE INDEX OF BUILDING MATERIALS

The wholesale price index of building materials is based on a sample of commodities at the primary-market level of transactions. Selections of commodities included in the index are based upon knowledge of each industry and its important products, and are made after consultation with leading trade associations and manufacturers within each field. The particular specifications for each commodity also were selected on the basis of advice from the industry and other expert sources. The classification system is based essentially on products or commodities, rather than on industry, source, or end-use.

Reporters (i.e., individual sellers) are selected by taking into account the distribution of sellers by geographic region when such distribution is important; and by degree of integration, volume, market, and degree of "price leadership." Wherever possible, at least three reporters are obtained for each specification; data are not published when



composite prices are based on quotations from fewer than three individual reporters. In the case of a commodity such as brick, which is locally produced for a limited geographic market, reporters are selected to represent all important markets.

In 1952 there was a major revision and modernization of the index, which primarily involved expansion of coverage, changes in weights, and change in the base period from 1926 to an average of the 3 years, 1947, 1948, and 1949. Coverage was expanded to include a greater number and variety of commodities and a larger number of reporters for individual items.

Previously, the price indexes were calculated as fixed-base weighted aggregates. Weights used were based on the average of sales in 1929 and 1931 of only the specific commodities priced for the index, with necessary adjustments made to reflect changing market conditions. In the revised series, weights are intended to account for the relative importance of each item in total building construction and were based originally on the dollar value of transactions in 1947. In January 1955, the weighting diagram was revised to reflect the dollar value of primary-market transactions in the calendar years 1952 and 1953. Such weight revisions occur as part of the continuous evaluation of the index, and do not affect comparability.

The revised index goes back through January 1947. In addition, price movements for some components and the overall index were traced back to 1926, on the basis of month-to-month movements of the indexes prior to January 1947.<sup>16</sup>

#### HOURLY EARNINGS IN CONTRACT CONSTRUCTION

Data for computing gross average hourly earnings in contract construction are collected by means of schedules mailed to a sample group of firms in the industry. The sample covers about 20,000 firms which account for approximately three-fifths of total employment in contract construction.

Each reporting firm receives a questionnaire that provides for entry of employment, man-hours, and payroll data for a pay period in each month in the year. The schedule design is reviewed annually to introduce improvements and to take account of changing industry characteristics. In addition, data on the product or activity of the firm is collected annually for use in industrial classification.

The monthly average of gross hourly earnings for a subgroup is obtained by dividing the subgroup's total production (or nonsupervisory worker

payroll by the total man-hours reported for these workers. The average for the industry as a whole, for a given month, is based on average hourly earnings for components, weighted by aggregate man-hours.

#### CONSTRUCTION CONTRACT AWARDS

##### CONTRACT AWARDS IN THE 37 EASTERN STATES (F. W. Dodge Corporation)

Contract-award statistics appearing in table 19 are compiled by the F. W. Dodge Corporation from field reports of individual project contracts in the 37 States east of the Rocky Mountains, as a byproduct of the Corporation's daily construction news reporting service. Reports include all areas other than farm, although coverage is generally less complete on low cost projects in rural nonfarm areas than in urban areas.

Data include new construction, additions, and major alteration projects. No maintenance work is included. A negligible part of farm building construction is included. In general, force-account work is included only when executed with materials earmarked for specific projects at time of purchase. Both private and public projects are covered.

##### CONTRACT AWARDS FOR PUBLIC CONSTRUCTION

STATE AND LOCALLY OWNED.—The contract statistics appearing in tables 20, 21, and 22 represent the value of new construction placed under contract by State, county, municipal, and other local governmental units or agencies. The total value of construction contracts for publicly owned projects under Federal-aid programs is included. These figures do not include the cost of architectural fees, nor are they adjusted for undercoverage.

The data are compiled by the Business and Defense Services Administration, Department of Commerce, from: (1) information published by a number of private construction news services; (2) information received from selected State and local government agencies; and (3) data compiled by the Bureau of Public Roads and the Bureau of Labor Statistics.

With the exception of data on awards for State highway construction and for new public house-keeping residential units, the sources fall into two groups: (1) awards in the 37 Eastern States are basically those reported by the F. W. Dodge Corporation. Between 1946 and 1952, inclusive, reports from a number of other private construction news services were used to supplement the Dodge reports; (2) awards in the 11 Western States are

<sup>16</sup>For a more complete description of the compilation of this series, see Techniques of Preparing Major BLS Statistical Series, BLS Bulletin 1168, Chapter 10. Available from Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C., at 65 cents a copy.

compiled from reports published by the following private construction news services: Engineering News-Record, Daily Construction Service, Daily Pacific Builder, Denver Daily Journal, Southwest Builder and Contractor, and Pacific Builder and Engineer. In addition, the California State Department of Public Works reports on all awards for construction projects under their jurisdiction. Finally, a construction project questionnaire is used to verify the reports received on all large projects and to secure additional data on smaller projects when needed.

State highway contracts are compiled by the Bureau of Public Roads, Department of Commerce, from reports submitted by each of the State Highway Departments and from each of the State-level Toll Authorities.

The Department of Labor compiles data on the value of new non-Federal public housekeeping residential units started each month and this is used in the contracts awarded series.

**FEDERALLY OWNED.**—Data on contracts awarded for federally owned construction are compiled by the BLS from reports submitted by the various Federal agencies having construction operations.

The series relates to all contracts awarded by the Federal Government for new construction (including force-account work and major additions and alterations) in continental United States. Awards for construction financed by Federal loans (e.g., by the Reconstruction Finance Corporation and the Rural Electrification Administration) are excluded. Excluded also are contract awards involving private loans insured or guaranteed by the Federal Government, such as FHA-insured and VA-guaranteed mortgage loans.

Coverage is virtually universal, and the final revised summaries involve almost no estimation. However, the following limitations in the data should be noted: (1) Secret projects of the Department of Defense are excluded for security reasons. These vary greatly in extent from year to year, and no measure of their volume is possible. (2) The amounts included for cost-plus and unit-price contracts are original cost estimates. Awarding agencies are requested to report additions, change-orders and revised estimates, but it is unlikely that a complete roster reaches the statistical agency. (3) Individual awards of less than \$25,000 are excluded, for economy of operations, since the value of such contracts is usually an insignificant proportion of the total.



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